



SIDE ROTARY ASSEMBLIES

JD6xxxD

Current as of 06/22/2013

PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

Tiger Corporation
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Sioux Falls, SD 57107
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www.tiger-mowers.com

06011014

TO THE OWNER / OPERATOR / DEALER

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!! Read the safety messages on the implement and shown in this manual. Observe the rules of safety and use common sense!

READ AND UNDERSTAND THIS MANUAL! Non-English speaking operators will need to GET THE MANUAL TRANSLATED as needed!



DANGER

FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.



1. Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.

● Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children

2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or mower or contact with rotating blades.

3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.

● Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.

4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding

5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.

● Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.

6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.

8. Before dismounting, secure implement in transport position or lower to ground.

● Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.

● Never mount or dismount a moving vehicle. Crushing from rollover may cause serious injury or death.



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Warranty Information: Read and understand the complete Warranty Statement found in this manual. Fill out the Warranty Registration form in full and return it within 90 days. Make certain the Serial Number of the machine is recorded on the Warranty Card, and form that you retain.

FORWARD

This manual contains information about many features of the Tiger mowing and roadside maintenance equipment. Some of these include: Safety precautions, Assembly instructions, Operations, Maintenance and Parts. This manual will also assist you in the proper break-in, daily care, and troubleshooting of your new mower.

We recommend that you read carefully the entire manual before operating the unit. Also, time spent in becoming fully acquainted with its performance features, adjustments, and maintenance schedules will be repaid in a long and satisfactory life of the equipment.

Troubleshooting - Please, before you call, help us to help you!

Please look at the equipment to observe what is happening, then:

- Classify the problem
 - Hydraulic, electrical or mechanical - Read the trouble shooting section
 - Tractor or Truck chassis - Contact vehicle dealer

- If unable to correct the problem yourself, contact your local Tiger Dealer after gathering:
 - Machine model _____
 - Serial number _____
 - Dealer name _____
 - Detailed information about the problem including results of troubleshooting

Attention Owner / Operator / Dealer: It is your obligation to read, and understand, the warranty information section located at the back of this manual denoting that the purchaser understands the safety issues relating to this machine and has received and will read a copy of this manual.

If at any time, you have a service problem with your Tiger mower, Contact your local dealer for service and parts needed.

MANUFACTURED BY:

Tiger Corporation

3301 N. Louise Ave.

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1-800-843-6849

1-605-336-7900

www.tiger-mowers.com

DISTRIBUTED BY:

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1012

This symbol means:

CAUTION – YOUR SAFETY IS AT RISK!

When you see this symbol, read and follow the associated instructions carefully or personal injury or damage may result.

Tiger is a registered trademark.



SAFETY SECTION

SAFETY

General Safety Instructions and Practices

A safe and careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner / operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating or servicing this mower. This equipment should only be operated by those persons who have read the Manual, who are responsible and trained, and who know how to do so safely and responsibly.



The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: “**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**” The symbol and signal word are intended to warn the owner / operator of impending hazards and the degree of possible injury when operating this equipment.

Practice all usual and customary safe working precautions and above all -- remember safety is up to YOU! Only YOU can prevent serious injury or death from unsafe practices.

DANGER!



Indicates an imminently hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.

WARNING!



Indicates an imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.

CAUTION!



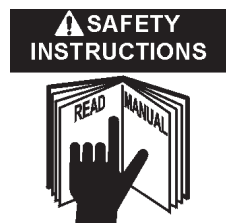
Indicates an imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.

IMPORTANT!

Identifies special instructions or procedures that, if not strictly observed, could result in damage to, or destruction of the machine, attachments or the environment.

NOTE: *Identifies points of particular interest for more efficient or convenient operation or repair.* (SG-1)

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards. (SG-2)



SAFETY

SAFETY

PELIGRO!



Si no lee Ingles, pida ayuda a alguien qui si lo lea para que le traduzca las medida de seguridad. (SG-3)

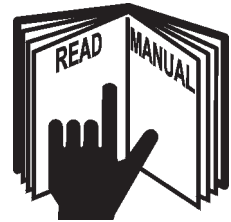


¡ LEA EL INSTRUCTIVO!

DANGER!



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel too operate the Tractor and Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (SG-4)



WARNING!



Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. (SG-5)

WARNING!



Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. (SG-6)



WARNING!



Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS. (SG-7)



WARNING!

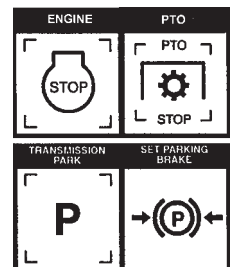


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

DANGER!



BEFORE leaving the tractor seat, always engage the brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)



SAFETY

SAFETY

DANGER!



Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in serious injury or death.

(SG-10)



DANGER!



Never allow children to operate or ride on the Tractor or Implement.

(SG-11)



WARNING!



Do not mount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped.

(SG-12)



DANGER!



Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in injury or death. Read the Tractor operators manual for proper starting instructions. (SG-13)



DANGER!



Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death. (SG-14)



DANGER!



Do not operate this Equipment with hydraulic oil leaking. Oil is expensive and its presence could present a hazard. Do not check for leaks with your hand! Use a piece of heavy paper or cardboard. High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)

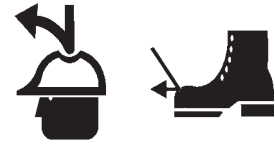


SAFETY

WARNING!



The operator and all support personnel should wear hard hats, safety shoes, safety glasses, and proper hearing protection at all times for protection from injury including injury from items thrown by the equipment. (SG-16)



CAUTION!



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS! Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss. *Note:* Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery. (SG-17)



WARNING!



Transport only at safe speeds. Serious accidents and injuries can result from operating this equipment at unsafe speeds. Understand the Tractor and Implement and how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.



Before transporting the Tractor and Implement, determine the safe transport speeds for you and the equipment. Make sure you abide by the following rules:

1. **Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum safe transport speed for you and this Equipment.**
2. **Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that it is safe to operate at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum safe turning speed for you and this equipment before operating on roads or uneven ground. Only transport the Tractor and Implement at the speeds that you have determined are safe and which allow you to properly control the equipment.**
3. **Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy.** (SG-19)



SAFETY

SAFETY

WARNING!



Never attempt to lubricate, adjust, or remove material from the Implement while it is in motion or while tractor engine is running. Make sure the tractor engine is off before working on the Implement.

(SG-20)

WARNING!



Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order. (SG-21)



WARNING!



Always read carefully and comply fully with the manufacturers instructions when handling oil, solvents, cleansers, and any other chemical agent. (SG-22)



DANGER!



Never run the tractor engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health.

(SG-23)

DANGER!



KEEP AWAY FROM ROTATING ELEMENTS to prevent entanglement and possible serious injury or death. (SG-24)



DANGER!



Never allow children to play on or around Tractor or Implement. Children can slip or fall off the Equipment and be injured or killed. Children can cause the Implement to shift or fall crushing themselves or others. (SG-25)

DANGER!



DO NOT allow any person under a folded wing unless wing is securely locked up or supported. **DO NOT** approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-3)



SAFETY

CAUTION!



On a fully-assembled unit, do not remove the Wing Retaining Strap until hoses are attached to the tractor and the Wing Cylinders are filled with oil. Lower the Wings slowly and carefully. Keep bystanders away during operations. (STI-5)

DANGER!



NEVER use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. **NEVER** knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. (SG-27)



DANGER!



Operate the Tractor and/or Implement controls only while properly seated in the Tractor seat with the seat belt securely fastened around you. Inadvertent movement of the Tractor or Implement may cause serious injury or death. (SG-29)

WARNING!



Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 100 yards in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see this type of items discontinue mowing. (SGM-1)

DANGER!



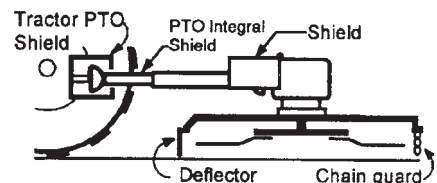
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care is taken to insure the safety of the operator, bystanders, or passersby in the area. Do not operate this machine with anyone in the immediate area. Stop mowing if anyone is within 100 yards of mower. (SGM-2)



DANGER!



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields, and Retractable Door Shields should be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury or death from thrown objects, entanglement, or blade contact. (SGM-3)



SAFETY

SAFETY

DANGER!



The rotating parts of this machine have been designed and tested for rugged use. However, the blades could fail upon impact with heavy, solid objects such as metal guard rails and concrete structures. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles. (SGM-4)

WARNING!



Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. (SGM-5)



WARNING!



Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous and could result in serious injury or even death. Inspect the cutting area for such objects before mowing. Remove any like object from the site. Never allow the cutting blades to contact such items. (SGM-6)

WARNING!



Mow at the speed that you can safely operate and control the tractor and mower. Safe mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 0 to 5 mph. Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. (SGM-7)

WARNING!



Avoid mowing in reverse direction when possible. Check to make sure there are no persons behind the mower and use extreme care when mowing in reverse. Mow only at a slow ground speed where you can safely operate and control the tractor and mower. Never mow an area that you have not inspected and removed debris or foreign material. (SGM-8)

WARNING!



Do not put hands or feet under mower decks. Blade Contact can result serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-9)



DANGER!



Replace bent or broken blade with new blades. NEVER ATTEMPT TO STRAIGHTEN OR WELD ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES. (SGM-10)

WARNING!



Do not mow with two machines in the same area except with Cab tractors with the windows closed. (SGM-11)

SAFETY

DANGER!



Rotary Mowers are capable under adverse conditions of throwing objects for great distances (100 yards or more) and causing serious injury or death. Follow safety messages carefully.

STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UNLESS:

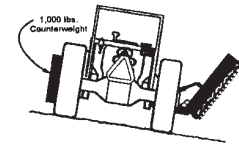
- Front and Rear Deflectors are installed and in good, working condition;
- Mower Head is running close to and parallel to the ground without exposed Blades;
- Passersby are outside the existing thrown-object zone;
- All areas have been thoroughly inspected and all foreign material such as rocks, cans, glass, and general debris has been removed.

NOTE: Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be: inspected and large debris removed, mowed at an intermediate height, inspected closely with any remaining debris removed, and mowed again at desired final height. (SBM-1)

WARNING!



Each Rear Wheel must have a minimum of 1,000 pounds contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you need assistance with Counterweight Procedure. (SFL-3)



WARNING!



Do not operate Mower if excessive vibration exists. Shut down PTO and the Tractor engine. Inspect the Mower to determine the source of the vibration. If Mower blades are missing or damaged replace them immediately. Do not operate the mower until the blades have been replaced and the Mower operates smoothly. Operating the Mower with excessive vibration can result in component failure and broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the Mower to be operated with blades missing. (SFL-4)

WARNING!



Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-7)



DANGER!



Use extreme caution when raising the Mower head. Stop the Blades from turning when the Mower Head is raised and passersby are within 100 yards. Raising the Mower head exposes the Cutting Blades which creates a potentially serious hazard and can cause serious injury by objects thrown from the Blades or by contact with the Blades.

(SBM-2)

SAFETY

SAFETY

WARNING!



Never leave the Tractor and Implement unattended while the Implement is in the lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing. To properly park the implement when disconnecting it from the tractor, lower the stand and put the retaining pin securely in place, or put a secure support under the A-Frame. Lower the implement carefully to the ground. Do not put hands or feet under lifted components. (S3PT-1)

WARNING!

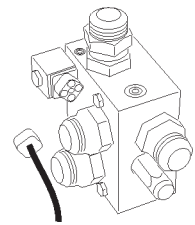


Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to starting any maintenance or repair work. (SBM-6)

DANGER!



Always disconnect the wire leads from the mower valve solenoid before performing service on the Tractor or Mower. Use caution when working on the Tractor or Mower. Tractor engine must be stopped before working on Mower or Tractor. The Mower Blades could inadvertently be turned on without warning and cause immediate dismemberment, injury or death. (SBM-12)



WARNING!



Use extreme care when lowering or unfolding the implement's wings. Make sure no bystanders are close by or underneath the wings. Allow ample clearance around the implement when folding or unfolding the wings. Use extreme caution around buildings or overhead power lines.

(S3PT-5)

WARNING!



Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Implement on the ground or securely blocked up, disengage the PTO, and turn off the tractor engine. Push and pull the Remote Cylinder lever in and out several times prior to starting any maintenance or repair work. (S3PT-9)



DANGER!



This Implement is wider than the Tractor. Be careful when operating or transporting this equipment to prevent the Implement from running into or striking sign posts, guard rails, concrete abutments or other solid objects. Such an impact could cause the Implement and Tractor to pivot violently resulting in loss of steering control, serious injury, or even death. Never allow the Implement to contact obstacles. (S3PT-12)

DANGER!



The flail cutter shaft is designed for standard rotation (same rotation as the tractor wheel during forward travel). **Never operate the cutter shaft in the reverse rotation.** Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.



SAFETY

SAFETY

WARNING!



The rotating parts of this machine continue to rotate even after the Tractor has been turned off. The operator should remain in his seat for 60 seconds after the brake has been set, the PTO disengaged, the tractor turned off, and all evidence of rotation has ceased. (SBM-5)

“Wait a minute...Save a life!”

WARNING!



Engine Exhaust, some of its constituents, and certain components contain or emit chemicals known to the state of California to cause cancer and birth or other reproductive harm.

WARNING!



Battery post, terminals and related accessories contain lean and lead compounds, chemicals known to the state of California to cause cancer and birth or other reproductive harm. **Wash hands after handling!**

Tiger mowers use balanced and matched system components for blade carriers, blades, cutter-shafts, knives, knife hangers, rollers, drive-train components and bearings. These parts are made and tested to Tiger specifications. Non-genuine “will fit” parts do not consistently meet these specifications. The use of “will fit” parts may reduce mower performance, void mower warranties and present a safety hazard. Use genuine Tiger mower parts for economy and safety.

SEE YOUR

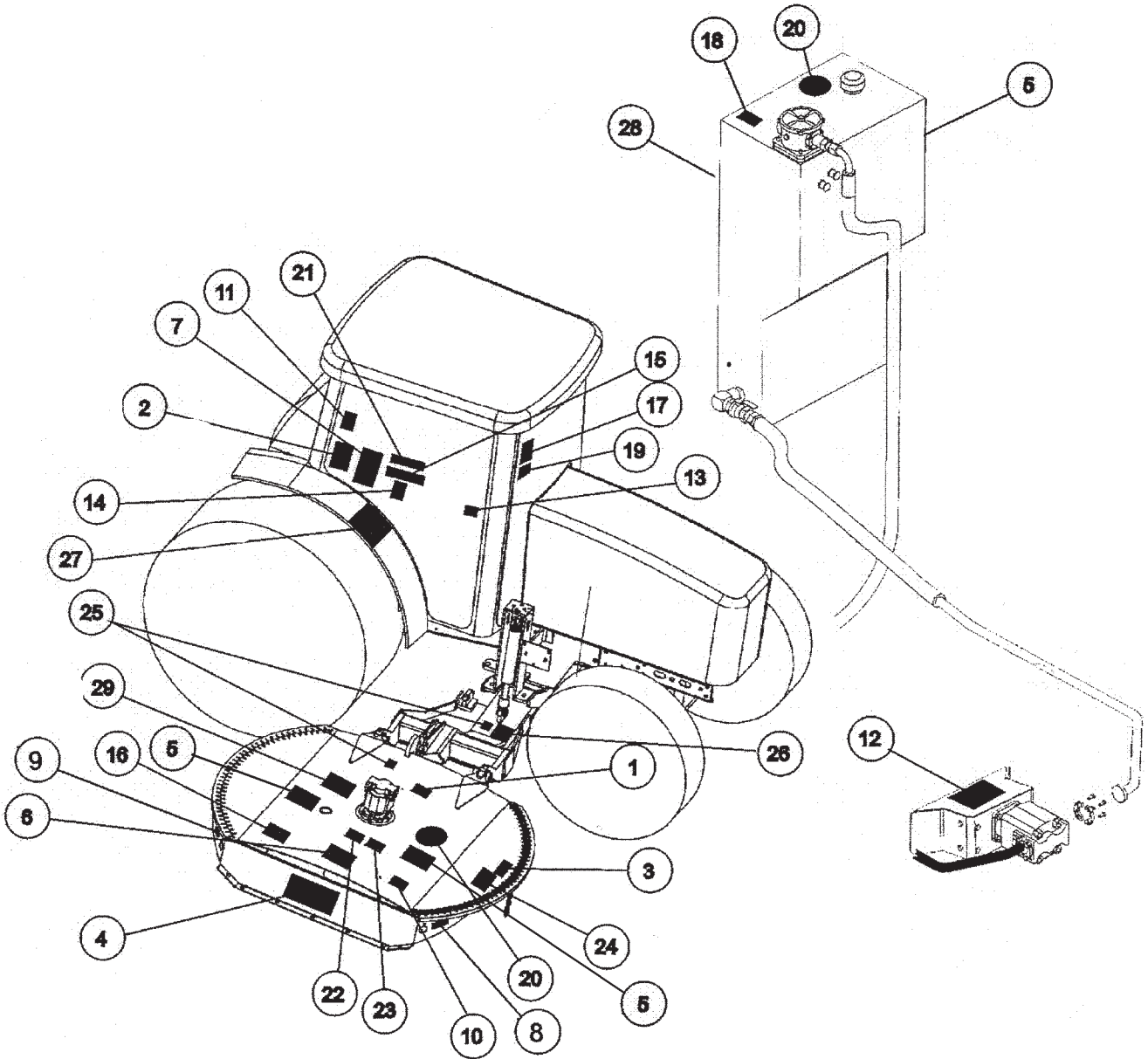


DEALER

In addition to the design and configuration of this Implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the Tractor and Equipment Manuals. Pay close attention to the Safety Signs affixed to the Tractor and Equipment. (SG-18)

SAFETY

SAFETY



SAFETY

SAFETY

ITEM	PART NO.	QTY.		DESCRIPTION
1	22839	1	INSTRUCT	Don Not Lubricate With Automatic Grease Gun
2	22840	1	WARNING	Foreign Objects Contacted
3	24028	1	WARNING	Inspect Rear Flap
4	31522	1	LOGO	TIGER MOWERS
5	31523	3	LOGO	TIGER MOWERS
6	42350	1	DANGER	Cuttershaft Direction
7	33743	1	INSTRUCT	Mowing Safet Tips
8	42399	1	REFLECT	Red Reflector
9	42400	1	REFLECT	Amber Reflector
10	6T3217	1	DANGER	Keep Hands and Feet Clear
11	6T3219	1	WARNING	Read Operators and Maintenance Manuals
12	6T3220	1	INTRUCT	Lubricate Pump, Driveshaft Daily
13	6T3221	1	CAUTION	Lubricate Spindle When Mower and Tractor Off
14	6T3222	1	INSTRUCT	Engine will not start when mower is engaged
15	1059	1	INSTRUCT	Mower Positions
16	6T3224	1	DANGER	Stay Clear, Discharge Opening
17	6T3230	1	WARNING	Don't Operate with Bystanders in Area
18	6T3233	1	CAUTION	DONOT Start or Run with Valves closed
19	6T3234	1	CAUTION	Check Crankshaft Adapter Daily
20	6T3236	1	LOGO	Made In USA
21	6T3243	1	WARNING	Replace Bolts and Locknut if damaged
22	6T3249A	1	INSTRUCT	Grease Inst. Cuttershaft Bearing
23	6T3261	1	INSTRUCT	Grease Inst. Ground Roller Bearing
24	TB1011	1	WARNING	Do Not Work Mower with Safety Shiel Removed
25	02962764	1	WARNING	Pinch Point
26	02965262	1	WARNING	Hydraulic Hose Repair
27	02967827	1	DANGER	Multi Warn Messages
28	34852	1	INSTRUCT	Hydraulic Specifications
29	00756059	1	WARNING	Check Hydraulic Hose with Cardboard

SAFETY

SAFETY

DO NOT LUBRICATE WITH AUTOMATIC GREASE GUN. GREASE WITH HAND GREASE GUN ONLY.

P/N22839

PART NO.
LOCATION

22839
MOWER DECK



22840
INSIDE OF CAB

WARNING

INSPECT REAR FLAP FREQUENTLY TO BE SURE IT IS IN SAFE WORKING CONDITION. DO NOT OPERATE MOWER WITH FLAP REMOVED OR WORN.

24028

24028
MOWER DECK



10"X5.5" 31522
MOWER DECK

18.25"X10" 31523
HYDRAULIC TANK

SAFETY

⚠ DANGER

TO AVERT THROWN OBJECTS,
CUTTER SHAFT MUST TURN IN THIS



DIRECTION

PART NO.
LOCATION

42350
MOWER DECK

MOWING SAFETY TIPS ⚠

- ▶ Read & understand the Operator's Manual.
- ▶ Wear Your Seat Belt.
- ▶ Keep all shields and guards in place.
- ▶ Make sure equipment is in proper working order.
- ▶ Never attempt to get off or on a moving truck.
- ▶ Never allow riders on truck or equipment.
- ▶ Only start the truck from the seat with the key.
- ▶ Always inspect the area before mowing.
Remove all foreign debris.
- ▶ Always keep bystanders and coworkers a minimum of 300 feet away.
- ▶ Never allow the mower blades to contact solid objects or foreign material.
- ▶ Never approach rotating elements.
- ▶ Disengage mower head. Shut down Aux. Engine place transmission in park, set parking brake, shut off truck engine, and remove key. Wait till all rotating motion has stopped before leaving seat.



33743
INSIDE OF CAB

5



42399
MOWER DECK



42400
MOWER DECK

SAFETY

SAFETY

SAFETY



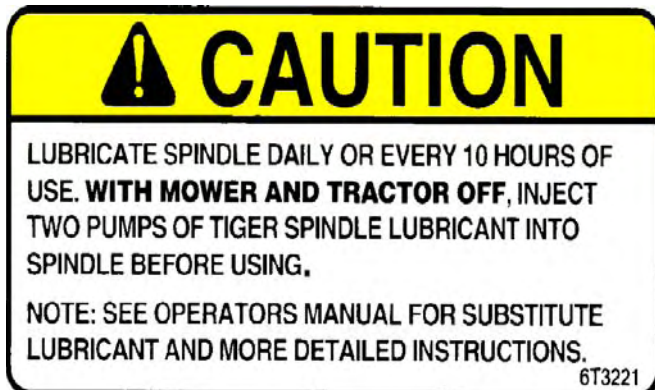
PART NO.
LOCATION

6T3217
MOWER DECK



6T3219
INSIDE OF CAB

6T3220
FRONT PUMP MOUNT



6T3221
INSIDE OF CAB

29-6T3221

SAFETY

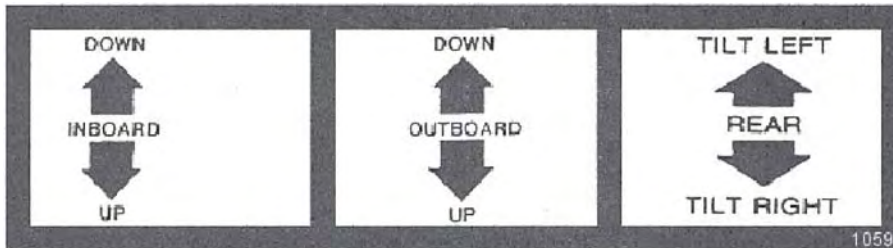
NOTICE:
Engine will not
start when mower
is engaged.



6T3222

PART NO.
LOCATION

6T3233
INSIDE OF CAB



1059

1059

6T3234
INSIDE OF CAB



6T3236
MOWER DECK



6T-3230

6T3243
INSIDE OF CAB

SAFETY

SAFETY

SAFETY

PART NO.
LOCATION



6T3233
HYDRAULIC TANK



6T3234
INSIDE OF CAB



6T3236
MOWER DECK
HYDRAULIC TANK

6T3243
INSIDE OF CAB

SAFETY

PART NO.
LOCATION

GREASING INSTRUCTIONS

GROUND SHAFT BEARING
GREASE EVERY 8 HRS. OR DAILY

NOTE: If unusual environmental conditions exist; extreme temperatures, moisture, or contaminants more frequent lubrication is required.

6T3249A

6T3249A
MOWER DECK

GREASING INSTRUCTIONS

GROUND ROLLER BEARING
GREASE EVERY 8 HRS. OR DAILY

NOTE: If unusual environmental conditions exist; extreme temperatures, moisture, or contaminants more frequent lubrication is required.

6T3261

6T3261
MOWER DECK

WARNING

**DO NOT OPERATE MOWER
WITH SAFETY SHIELD REMOVED.**

TB1011

TB1011
MOWER DECK



WARNING

PINCH POINTS



02962764

02962764
MOWER DECK
DRAFT BEAM

SAFETY

SAFETY

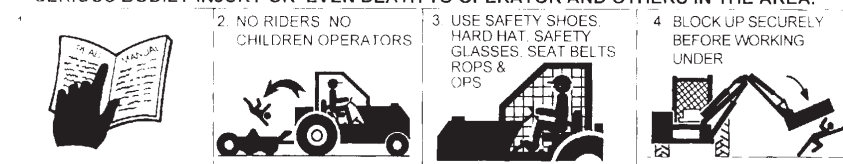
SAFETY

PART NO.
LOCATION

02965262
DRAFT BEAM

DANGER

FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.



1. Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
 - Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.
2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or mower or contact with rotating blades.
3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.
 - Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.
4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding.
5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.
 - Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.
6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.
7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.
8. Before dismounting, secure implement in transport position or lower to ground.
 - Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
 - Never mount or dismount a moving vehicle. Crushing from rollover may cause serious injury or death.



02967827
CAB FENDER

SAFETY



Tiger Corporation

800-843-6849

www.tiger-mowers.com

SAFETY

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics	Reservoir	ISO 46 Anti-Wear/ Low Temp	Mobil DTE® 15M
Cold Temperatures 0°F Start-up		JD-20C	Mobilfluid® 424
Normal Temperatures 10°F Start-up		ISO 46 Anti-Wear	Mobil DTE® 25
Normal Temperatures 15°F Start-up		ISO 100 Anti-Wear	Mobil DTE® 18M
High Operating Temperatures Above 90°F Ambient			
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Drive Shaft Coupler (Rotary and Flail) Drive Shaft Yoke, U - Joint and Stub Shaft	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flail Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Tiger Part #25351

For Mobil product information, availability, or technical information, call 1-800-662-4525.

Tiger PN 34852

34852
HYDRAULIC TANK

WARNING

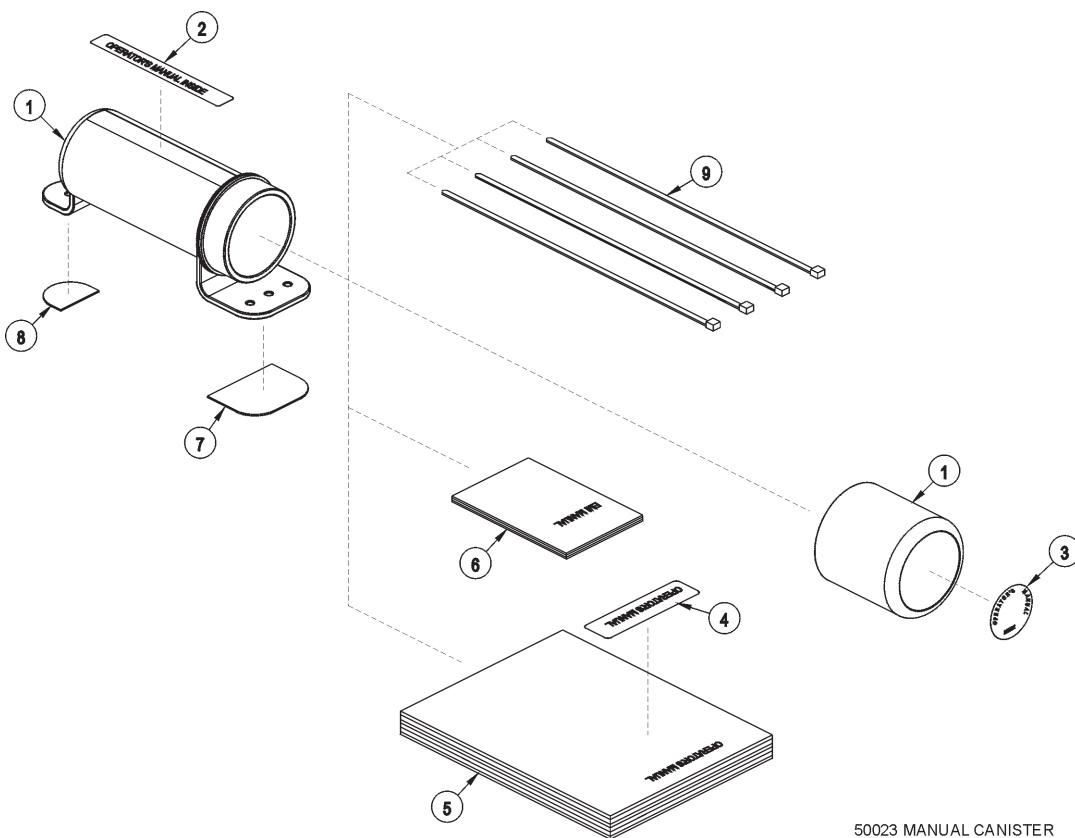
USE PAPER OR CARDBOARD TO CHECK FOR LEAKS. **NEVER USE YOUR HAND.** IF OIL PENETRATES SKIN, GANGRENE OR OTHER SERIOUS INJURY COULD OCCUR. **GET IMMEDIATE MEDICAL ATTENTION.**
See Operator's Manual.

00756059

00756059
MOWER DECK

SAFETY

SAFETY



50023 MANUAL CANISTER

ITEM	PART NO.	QTY.	DESCRIPTION
	50023	AVAIL	MANUAL CANISTER COMPLETE
1	00776031	1	Round Manual Canister
	33997	1	Decal, Sheet, Manual Canister
2		*	Decal
3		*	Decal
4		*	Decal
5	*	AVAIL	Specification Product Manual
6	33753	1	EMI Safety Manual
7	34296	1	Front Adhesive Pad
8	34297	1	Rear Adhesive Pad
9	6T1823	4	Zip Tie 14" Long

NOTE:

The manual canister can be bolted, zip tied or adhered to a variety of surfaces. Locate a protected area within the view of the operator. Then select an installation method and attach the canister. **CAUTION-AVOID DRILLING HOLES INTO UNKNOWN AREAS**, wires and other parts may be located behind these areas. When adhering the canister to a surface, thoroughly clean that surface before installing the canister.

SAFETY

FEDERAL LAWS AND REGULATIONS

This section is intended to explain in broad terms the concept and effect of federal laws and regulations concerning employer and employee equipment operators. This section is not intended as a legal interpretation of the law and should not be considered as such.

Employer-Employee Operator Regulations

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

This Act Seeks:

“...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources...”

DUTIES

Sec. 5 (a) Each employer-

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Regulations

OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved.”

Employer Responsibilities:

To ensure employee safety during Truck and Implement operation, it is the employer’s responsibility to:

1. Train the employee in the proper and safe operation of the Truck and Implement.
2. Require that the employee read and fully understand the Truck and Implement Operator’s manual.
3. Permit only qualified and properly trained employees to operate the Truck and Implement.
4. Maintain the Truck and Implement in a safe operational condition and maintain all shields and guards on the equipment.
5. Ensure the Truck is equipped with functional seat belts and require that the employee operator securely fasten the safety belts at all times.
6. Forbid the employee operator to carry additional riders on the Truck.
7. Provide the required tools to maintain the Truck and Implement in a good safe working condition and provide the necessary support devices to secure the equipment safely while performing repairs and service.

Child Labor Under 16 Years of Age

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)

SAFETY

SAFETY

ASSEMBLY SECTION

ASSEMBLY

Before attempting to mount your Tiger mower, it is important to read and understand all of the safety messages in the Safety Section of this manual.

Check complete shipment list against the packing list to make sure there are no shortages. Make certain the tractor model is the appropriate one for the mower received!



Always use a floor jack, hoist or fork lift to lift and raise heavy parts.

Read and understand the entire Assembly Section instructions before attempting to mount your Tiger mower. Refer to the Parts Section of this manual for detailed illustrations to locate all parts. (ASM-C-0001)

TRACTOR PREPARATION

- A. Remove right and left hand steps.
- B. Disconnect battery cables from both batteries.
- C. Remove engine side panels, or raise hood to access front pulley.
- D. Remove plugs from tractor casting where mainframe and pump mount will be attached.
- E. Remove any front weights and weight supports.
- F. Raise the tractor onto jack-stands and remove the right and left rear wheels.

(ASM-JD-0001)

MAINFRAME INSTALLATION

With an overhead hoist and / or jack-stands, raise one side of the frame up to the correctly matching mounting holes. Install capscrews and other hardware to secure the sides of the mainframe to the tractor casting, as shown on the tractor mount kit page in the Parts Section. **DO NOT** tighten at this time. Remove the capscrews one at a time and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the Maintenance Section of this manual. (ASM-C-0003)



ASSEMBLY

CRANKSHAFT ADAPTER

For JD6xxxD tractors with a front pump mount, install the John Deere pulley kit P/N: LVB24989 and follow the instructions. *(ASM-JD-0250)*

DRIVESHAFT AND FRONT PUMP MOUNTING

Install driveshaft into the crankshaft adapter.

Slide splined driveshaft coupler onto the pump driveshaft. Install the pump onto the mounting bracket. NOTE: the pump is offset to one direction and the pump should be installed with the offset side on top. Install hardware for securing pump to the pump mount, DO NOT tighten.

Install pump and align so that splined coupling can be moved (FREE PLAY) back and forth by hand. Rotate coupler and check free play every 1/4 turn. Tighten pump mounting bolts in succession, rechecking for spline coupling free play. Remove the pump mounting bracket bolts one at a time and apply a thread locking agent. Tighten these bolts in succession, again checking for free play in the driveshaft. After all bolts are torqued, the end play on the driveshaft should be 1/16" to 1/8", and coupler should move freely with hand pressure. If end play is less than 1/16", grind the end of the shaft to achieve the proper end play. If there is more than 1/4" of end play, return the shaft with specifications for a longer shaft.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED,



ASSEMBLY

REAR PUMP MOUNTING

Install the Pump Mounting Bracket onto the rear of the tractor. Secure the Pump Mounting Bracket with the supplied hardware. Refer to the Parts Section.

Slide splined driveshaft sprocket onto the tractor PTO. Install the chain onto the drive shaft Spocket. Install the pump spocket onto the pump. Install the pump onto the Pump Mounting Bracket and secure. Line up both sprockets and tighten with set screws onto respective shafts. NOTE: the pump body is offset, and the pump should be installed with the offset side down. Install hardware for securing pump to the pump mount, DO NOT tighten.

Remove the pump mounting bracket bolts one at a time and apply a thread locking agent. Tighten these bolts in succession.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-JD-0241)



ADJUSTING REAR WHEELS

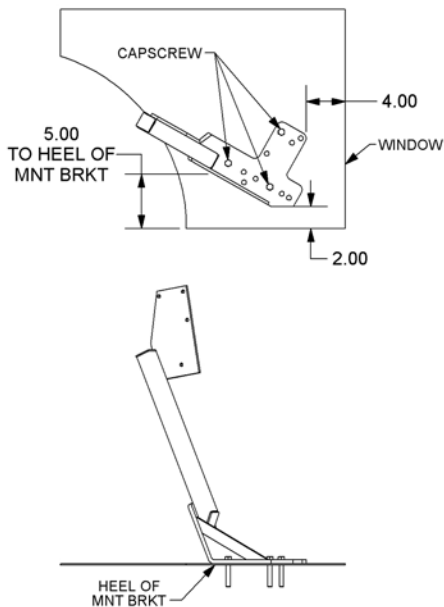
Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor owner's manual for adjusting tires and rims.** The back wheels **MUST** be adjusted to the widest setting. NOTE: This may require switching the wheels to opposite sides of tractor. Also take note of any width restrictions when transporting by trailer. (For ease of installation, it is best to leave the rear wheels removed during installation of the mower.) (ASM-B-0001)



ASSEMBLY

CABLE CONTROL LEVER STAND

Place the cable control bracket on the floor so that the bracket is 4" from the front window. Also the outer rear corner (heel) of the bracket is 5" from the edge of the door. The middle corner of the bracket should be 2" from the edge of the door. See image below. Be sure that the location of the stand will allow the operation of all control levers in the tractor and that the door will not strike the stand when shut. Double check under the cab for cables and wires that may be cut when drilling. And before drilling double check location of the stand for proper placement of holes. Drill 3 holes to match control bracket and secure with capscrews and nylock nuts noted in Parts Section.



The rubber boot under the rear window can be cut in a crosshair pattern and, if necessary, the bottom cut through to allow it to slip over the cables and back into position. These cables will be routed to the lift valve mounted on the valve mounting plate, and should not have any sharp bends or kinks in them. Secure cables with zip ties and apply RTV sealer in and around individual cables, inside and outside of the cab for a water tight seal. Do not allow excess cable to hang unsecured on the outside of the cab. (ASM-JD-0239).



ASSEMBLY

SWITCHBOX WIRING

Cover all wires with plastic wire wrap provided. Route the green wires along switchbox bracket and cab frame to the steering wheel console. Route the rest of the wires along the base of the right hand console and up to the rubber boot in the bottom right corner in the rear window of the cab. The red and black wires will be connected to the auxillary power plug in the back of the cab. After all wiring is complete, secure all wires to the console with zip ties and push mounts. Take up most of the slack so the wires are out of the way and tighten the zip ties.

With the panel under the steering wheel removed to access the wires, locate the brown wire and verify that this is the neutral safety wire with a test light or meter. Then cut the brown wire and connect a green wire from the switchbox to each end of the brown wire as shown in the wiring diagram. Cut a small hole for the green wires and the wire wrap to fit through and replace the console.

The red and black wires access power for the switchbox through a John Deere auxillary power plug in the rear of the cab.

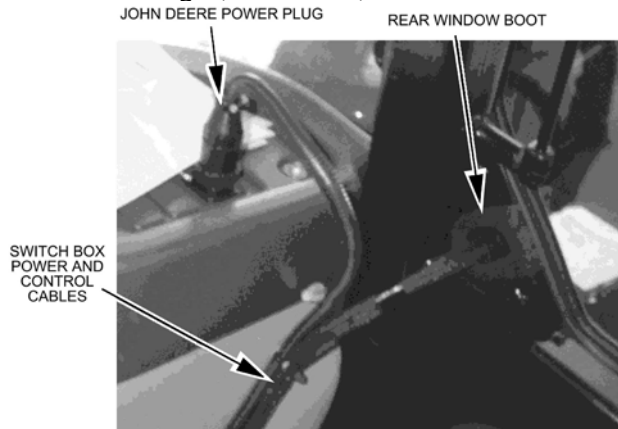
NOTE: The RED wire from the JD power plug should not be used because it is ALWAYS "Hot". +12 VOLTS ELECTRICAL POWER MUST BE TAKEN FROM A SOURCE LOCATION WHERE IT IS LIVE ONLY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THE RED WIRE MUST BE FUSED AT THE SOURCE LOCATION WITH A CLOSED END CONNECTOR (# 34538).

Connect the red wire from the switchbox to the orange wire from the JD power plug. Connect the black wire from the switchbox to the black wire from the JD power plug.

Two sets of wires have Metri-Pak ends on them. The white and black wires plug into the brake valve. The orange and black wires plug into the travel lock.

Cut a crosshair pattern in the rubber boot in the right bottom corner of the rear window. The wires can be routed through and the rubber falls back into position. The hole should only be large enough for the wires to go through easily.

Route the Metri-Pak wires from the window boot to their location on the unit. Coil the excess wire and secure it to the tractor frame with zip ties to eliminate vibration and rubbing. (ASM-JD-0078)



34538 - CLOSED END CONNECTOR



NOTE: When cutting or drilling a hole, be sure not to damage existing wires running behind panels.



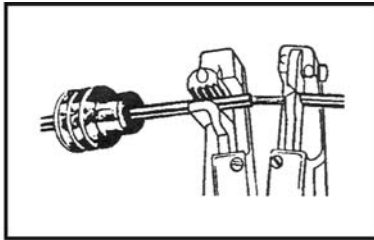
ASSEMBLY

WEATHER-PACK / METRI-PACK ASSEMBLY

These instructions apply to both Weather-Pack and Metri-Pack connectors.

NOTE: Use the specific tool for the type of connector you are assembling.

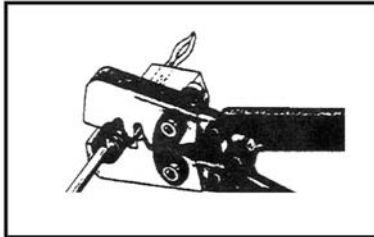
(ASM-C-0009)



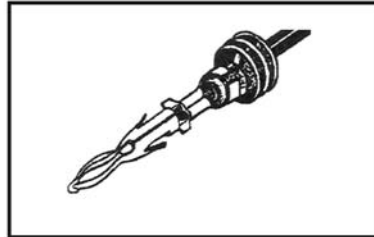
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



3. Put terminal in crimping tool, then position wire and seal in place.



4. Crimp and visually inspect for a good crimp before installing in connector body.

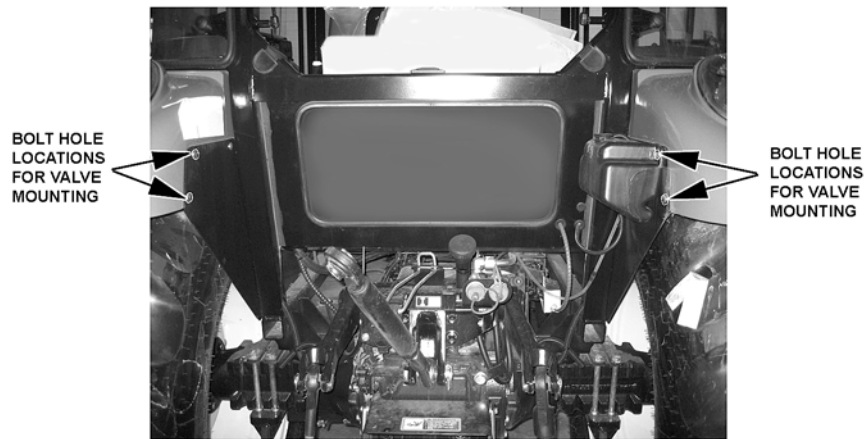


ASSEMBLY

VALVE MOUNTING

Attach the rear valve mounting bracket to the fender of the tractor by removing the two rear bolts on the left fender and the two rear bolts on the right fender. See illustration below. Drill the square holes in the fenders to accept 3/8" capscrews. Use the hardware noted in the Parts Section to attach the valve mounting bracket to the tractor.

Next, attach the valve mounting plate to the mounting bracket. Align the holes on the plate to the holes on the bracket. Use the hardware shown in the Parts Section to attach the plate to the valve mounting bracket. Finally, place the valve on the valve mounting plate as shown in the Parts Section. Align the holes on the valve assembly to the holes in the plate. Use the hardware provided to secure the valve to the plate. Refer to the Parts Section for the placement of the valve and the hardware used. **Please handle the lift valve with care. It is extremely heavy and contains small parts.** (ASM-JD-0065)

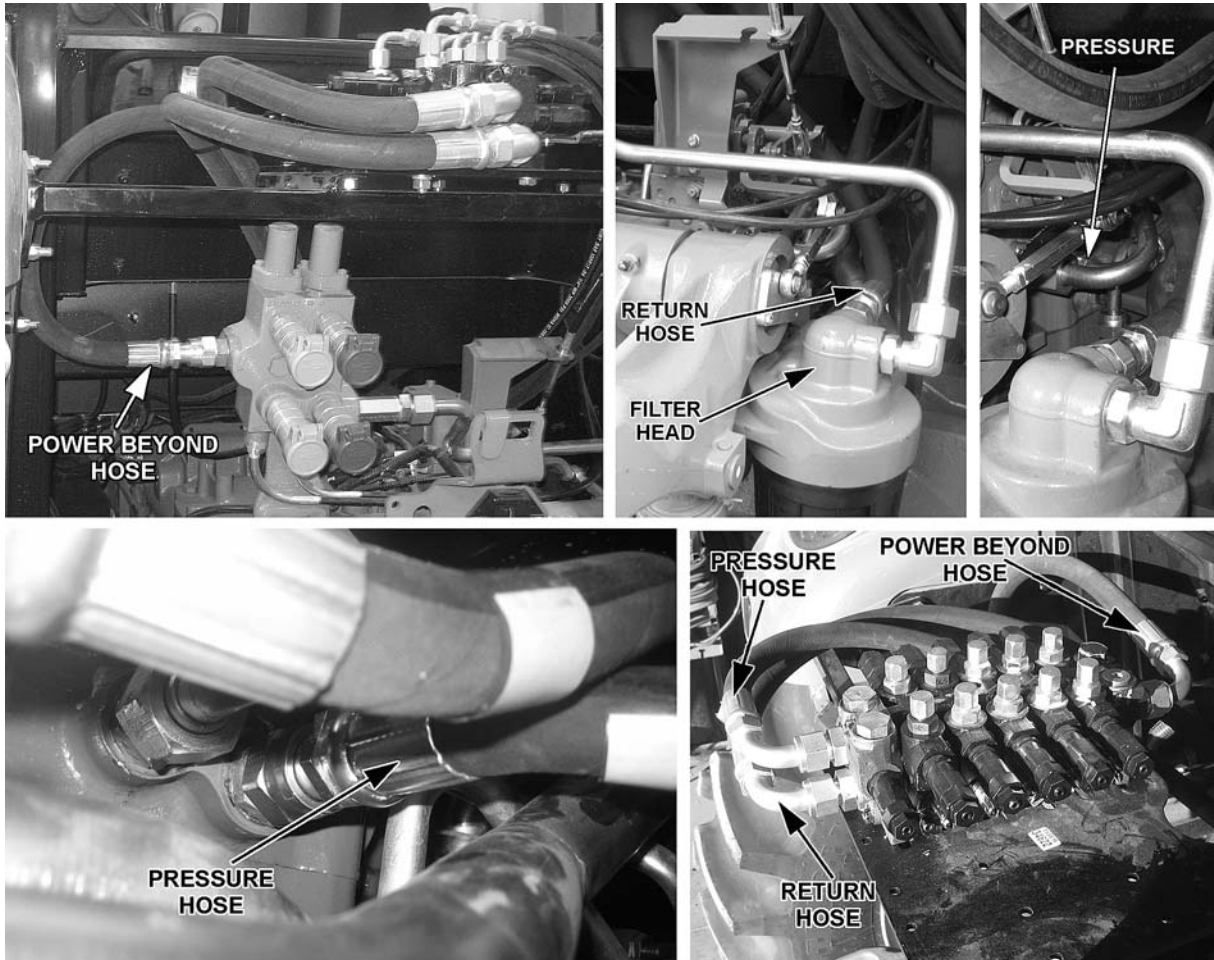


ASSEMBLY

TRACTOR PLUMBING

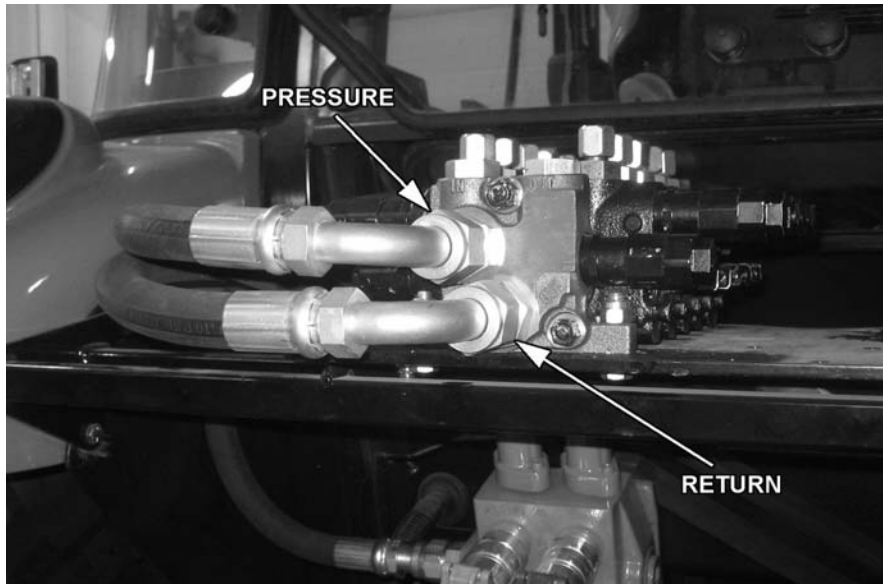
Remove the stock pressure line to the remote valve. It will be necessary to temporarily remove other hoses and tubes that block access to connect the hoses. Install the pressure hose to the tractor pressure port. Install hose #06500783 from the power beyond port of the lift valve to the tractor SCV valve. Install pressure hose #06500782 from the tractor pressure on the side of the tractor to the upper port on the lift valve inlet. Install return hose #06500782 from lower port on lift valve inlet to the return filter on the tractor. See the Parts Section for parts used.

(ASM-JD-0242 6xxxD)



ASSEMBLY

MANUAL LIFT VALVE PORTS



(ASM-C-0102 JD6xxxD)

MANUAL SWITCHBOX MOUNTING

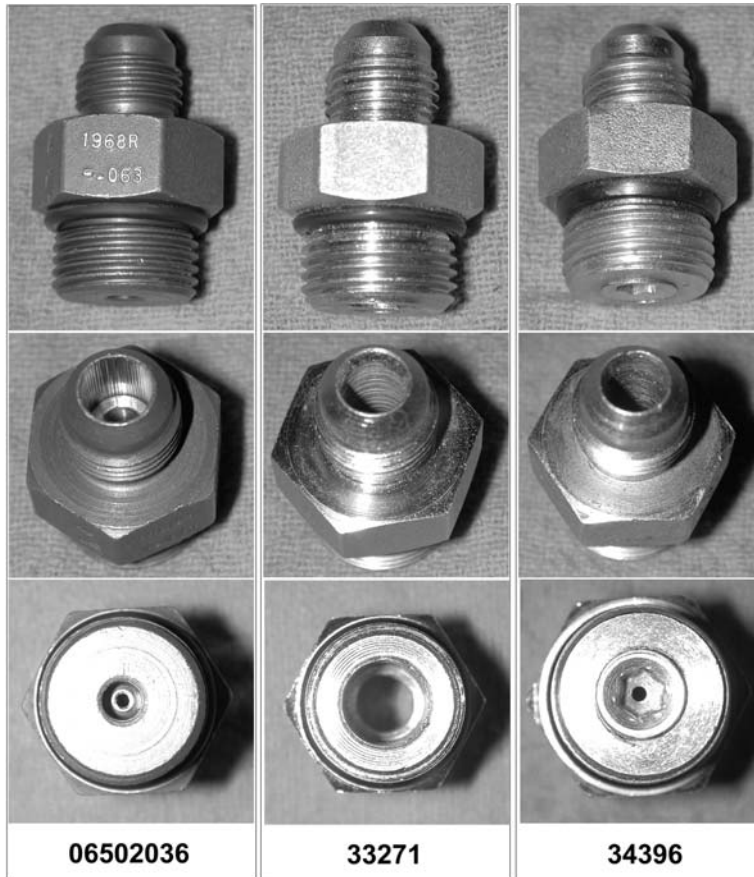
The switchbox is to be secured to the operator's side of the control handles, or valve stand. Refer to the Parts Section for assembly and components needed. (ASM-C-0071)



ASSEMBLY

NOTE ON HUSCO CONTROL VALVES

Manual, cable controlled (Husco control valve) boom mowers require check valves with integral restricting orifice (#06502036) installed in the control valve work ports that are connected to the gland ends of the main and secondary boom cylinders. This check valve allows oil to free flow into the gland end of the main and secondary boom cylinders, but restricts flow out of the cylinder, thereby providing proper boom control. This check valve, #06502036 (Vendor #1968R-.063) is similar in appearance to hose adapter #33271 and Adapter #34396, with .06 orifice. These components can be identified as follows, and are to be installed per Parts Section for the lift valve. (ASM-HUSCO-0001)



ASSEMBLY

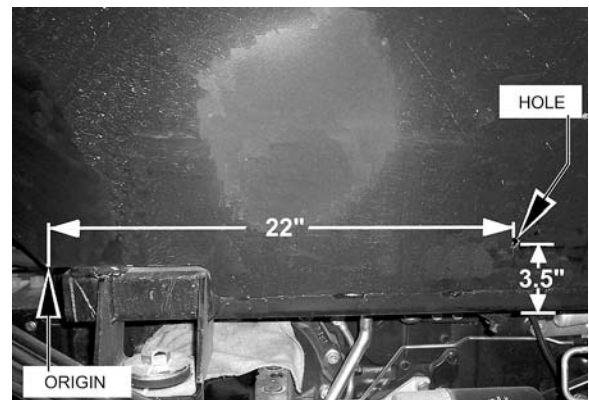
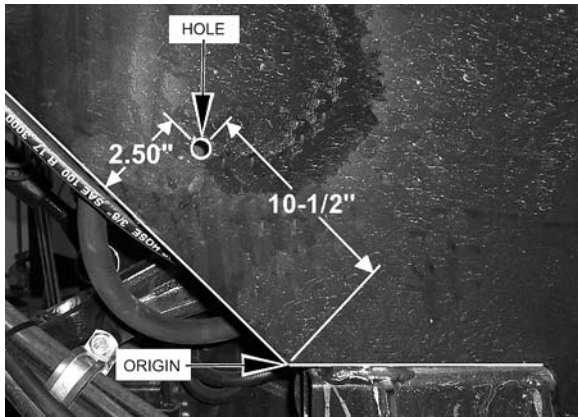
HOSE AND WIRE ROUTING

Attach two clamps to the right rear wheel well for proper hose/wire routing. Drill one hole for each clamp. Use the lower rear corner of the wheel well as an origin for measuring. The holes should be 10mm or 3/8" reamed to accept 3/8" hardware.

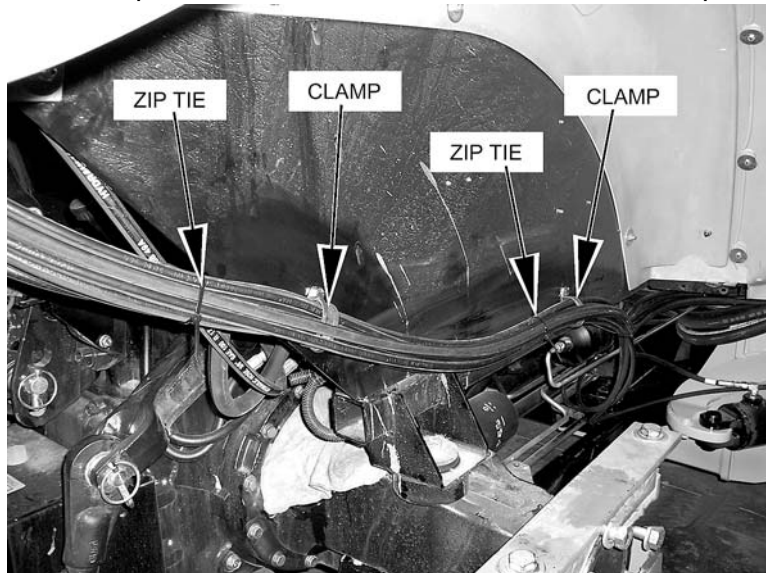
Measure along the back edge of the wheel well 10-1/2" from the origin. Use a square to measure 2-1/2" up, from the last mark. Refer to the image below to see the first hole.

The second hole should run parallel to the bottom edge of the wheel well. Mark the hole 22" from the origin and 3-1/2" from the bottom edge. Use the images below for reference.

NOTE: DO NOT CUT INTO TUBES / HOSES / WIRES WHEN DRILLING THROUGH METAL OR PLASTIC! (ASM-JD-0068)



Place as many hoses in the clamp as will fit without compromising pressure. Then secure the (2) HOSE CLAMP (06520013) to the holes drilled with (1 EACH) CAPSCREW, 3/8 X 1 NC (21630) and (1 EACH) NYLOCK NUT, 3/8 NC (21627). The hoses that don't fit into the clamp are to be secured to the others with zip ties. For protection of hoses in contact with metal edges, wrap hoses with split hose sections and fasten with hose clamps or zip ties as needed.



ASSEMBLY

WHEEL WELL HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in the Parts Section illustration. Insert tank sight glass onto the tractor side of the tank.

Place the tank in the mounting bracket on the axle brace as shown in the Parts Section. Secure the tank with the hardware provided.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator. The tank breather cap is ready for use as the tank is filled. Some of these items may already be installed. (ASM-C-0103)

FILLING HYDRAULIC RESERVOIR

Refer to the Maintenance Section for filling specifications and hydraulic oil requirements.

NOTE: Starting or running your Tiger mower before filling reservoir will cause serious damage to the hydraulic pump.

(ASM-C-0004hydro resrv)

WHEEL SPACER WITH WHEEL WELL TANK

When the left wheel is off, a spacer kit is needed with the wheel well tank (part# 06200637.) Attach the spacer to the left wheel portion of the axle with the hardware provided. When you are ready to re-attach the left wheel, the wheel goes on first then the reinforcement ring and finally the hardware provided. (ASM-JD-0070)

INSTALLING O-RING FITTINGS

Installing straight, 45° and 90° O-rings requires that the O-ring and washer be up against the swivel body. Insert the swivel and turn in until the swivel is pointed in the desired direction and O-ring contact is made. Hold swivel in set direction with a wrench and turn the O-ring nut away from the swivel body and carefully tighten. (ASM-C-0056)

INSTALLING NATIONAL PIPE FITTINGS

Whenever installing a pipe fitting, wrap the threads clockwise (looking at the end) with teflon tape. In this way, the tape will be tightened when installed. NOTE: It is not necessary to tape O-ring fittings, or those installed in swivels. (ASM-C-0088)

GENERAL HOSE INSTALLATION

Refer to the Parts Section for detailed information about hoses and fittings for this application. (ASM-C-0011)



ASSEMBLY

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the swivel and main boom with the hose cover provided. Wrap the hoses between the main boom and secondary boom with the hose cover provided. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties.

On non-cab units, the pressure and return hoses from the control valve will also need to be routed inside the protective hose wrap. Cover the valve and valve fittings with the hose cover and secure with the string provided. *(ASM-C-0058)*

SOLENOID BRAKE VALVE

Install a solenoid valve on the mounting bracket with the supplied hardware as shown in the Parts Section in this manual. While installing the fittings to the brake valve, the electrical coil on the spool may have to be removed to make room. When reinstalling the coil, it is important to use no more than 5 ft. lbs. (or 60in. lbs.) torque. **WARNING: OVER TORQUE TO THE COIL WILL RESULT IN HYDRAULIC FAILURE OF SPOOL.** *(ASM-C-0025)*

TEMPERATURE GAUGE MOUNTING (OPTIONAL)

Mount the temperature gauge where it is clearly visible to the operator. Attach the green (-) wire from the negative post on the gauge to a grounded bolt on the tractor frame. Remove paint if needed to make a good ground. Remove the pipe plug from the side of the hydraulic reservoir and install the temperature sensor using thread sealing tape. Run the white wire from the (s) sensor post of the gauge to the temperature sensor on the hydraulic reservoir tank. *(ASM-C-0051)*

AXLE BRACE INSTALLATION

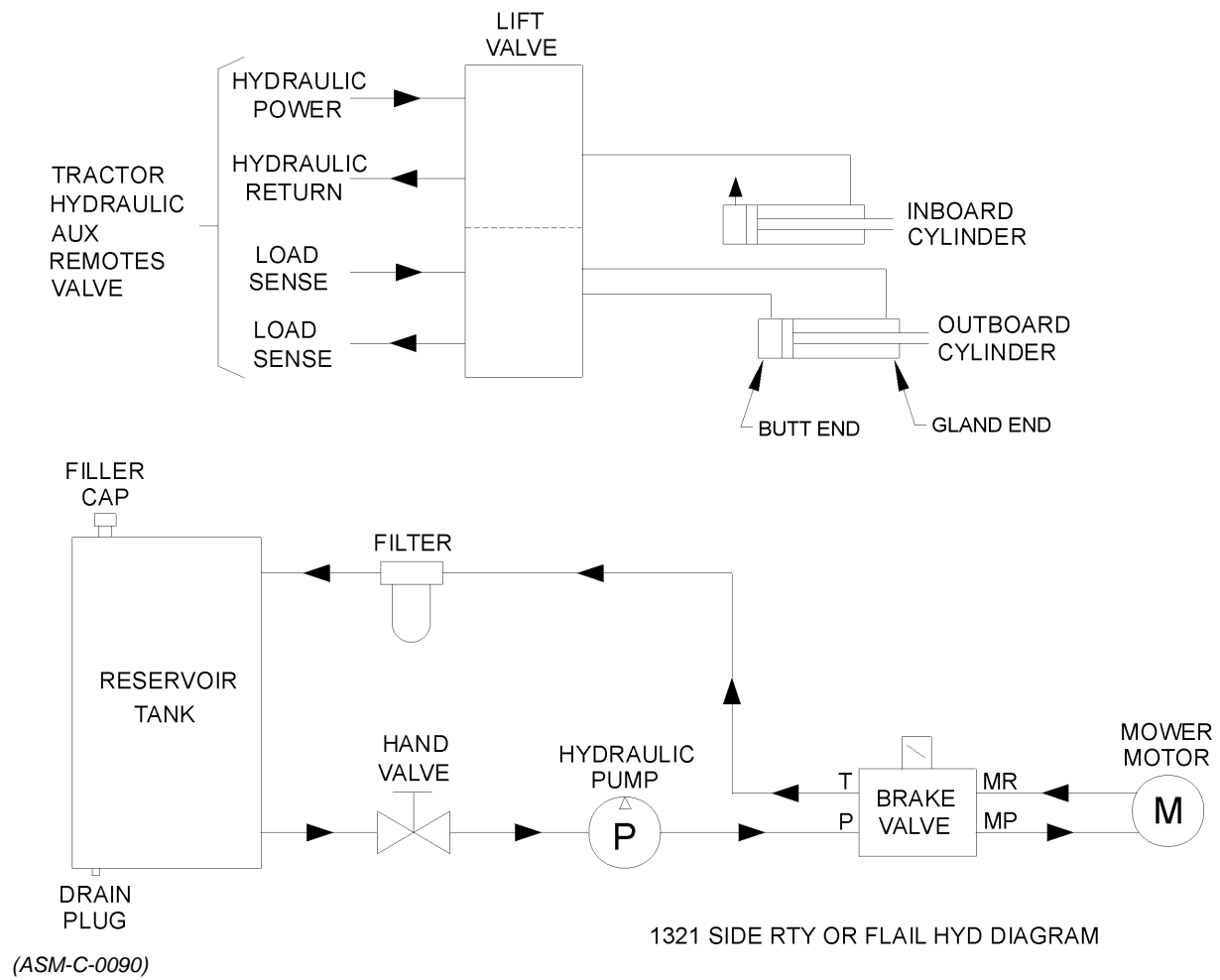
With the tractor on jack-stands, remove the existing hardware on the rear axle where the axle braces will be mounted. Use a hoist to raise the axle braces to the correctly matching mounting holes on the rear axle and the mainframe. Use the hardware shown in the Parts Section to attach the braces to the tractor, DO NOT tighten until the mainframe has been positioned onto the axle braces. The mainframe hardware will not be tightened at this time.

When the mainframe is in position, remove the capscrews one at a time and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the Maintenance Section of this manual. *(ASM-MF-0013)*



ASSEMBLY

SIDE MOWER HYDRAULIC DIAGRAM



ASSEMBLY

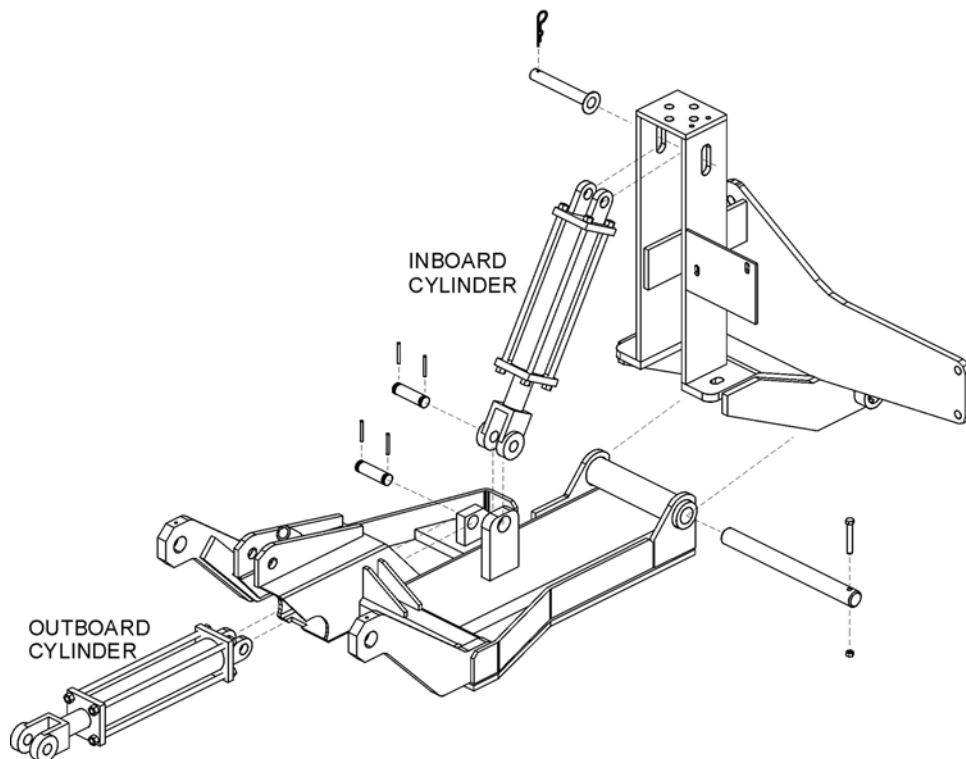
DRAFT BEAM INSTALLATION

Install ½" O-ring breather into butt port of inboard cylinder. Install fittings in the rod end of the cylinder according to the diagram in the Common Parts section. These fittings should be positioned to face the butt end of the cylinder.

Next turn the clevis onto the rod of the cylinder until it is tight against the shoulder and lock into place with locking bolt on clevis.

The inboard cylinder can now be installed into the main frame mast with the pin, flatwasher and R-clip as shown below.

Install all fittings in the outboard cylinder and adjust to point towards the butt end of the cylinder. Attach the hoses as specified in the Parts Section. Slide the cylinder into the draft beam from the outside of the draft beam and attach cylinder to the draft beam with clevis pin and rollpins. (ASM-C-0076)



DRAFT BEAM MOUNTING

Pull the inboard cylinder piston rod down to the extreme extended position. Slide the draft beam under the cylinder

Using the inboard cylinder as a pivot point, slide the draft beam under the tractor and install draft beam pin. Align hole in draft beam pin with holes in mainframe boss and install capscrew and nylock nut. (ASM-C-0078)



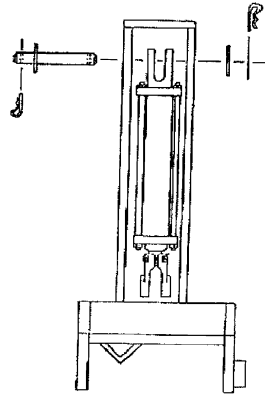
ASSEMBLY

CABLE LIFT DRAFT BEAM INSTALLATION

Install ½" O-ring breather into butt port of inboard cylinder. Install fittings in the rod end of the cylinder according to the diagram in the Common Parts Section. These fittings should be positioned to face the butt end of the cylinder.

Next turn the clevis onto the rod of the cylinder until it is tight against the shoulder and lock into place with locking bolt on clevis.

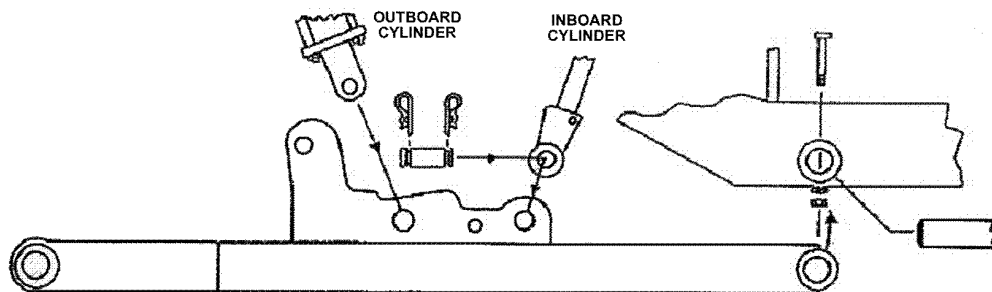
The inboard cylinder can now be installed into the mainframe mast with the pin, flatwashers and R-clips as shown below. Use teflon tape on all fitting and hose connections.



DRAFT BEAM MOUNTING

Pull the inboard cylinder piston rod down to the extreme extended position. Slide the draft beam under the cylinder, and align clevis hole with draft beam hole nearest to the tractor. Install pin and secure with R-clips.

Using inboard cylinder as a pivot point, slide draft beam under tractor and install draft beam pin. Align hole in draft beam pin with holes in mainframe boss and install capscrew, lockwasher and hex nut.



Install the fittings in the butt end of the outboard cylinder, as shown in the Common Parts Section. These should be positioned to face the rod end of the cylinder. Next, install the O-ring breather in the rod end of the cylinder.

Install the outboard cylinder in the hole in the draft beam as shown above. Install the pin into the draft beam and cylinder and secure with R-clips. (ASM-CBL DRFT BEAM-0001)



ASSEMBLY

DECK MOUNTING AND LIFT ASSEMBLY

Install the upper sheave bracket on the outboard cylinder and tighten securely against piston rod shoulder. Tighten the set screw, and align the draft beam.

Install the lower sheave bracket on the draft beam with a $\frac{3}{4}$ " capscrew and two hex nuts as shown in the diagram on the next page.

Align the deck with the draft beam mounting hole and install the outer draft beam pin. Align the holes in the draft beam pin with the holes in the boss and secure with capscrew, lockwasher and hex nut.

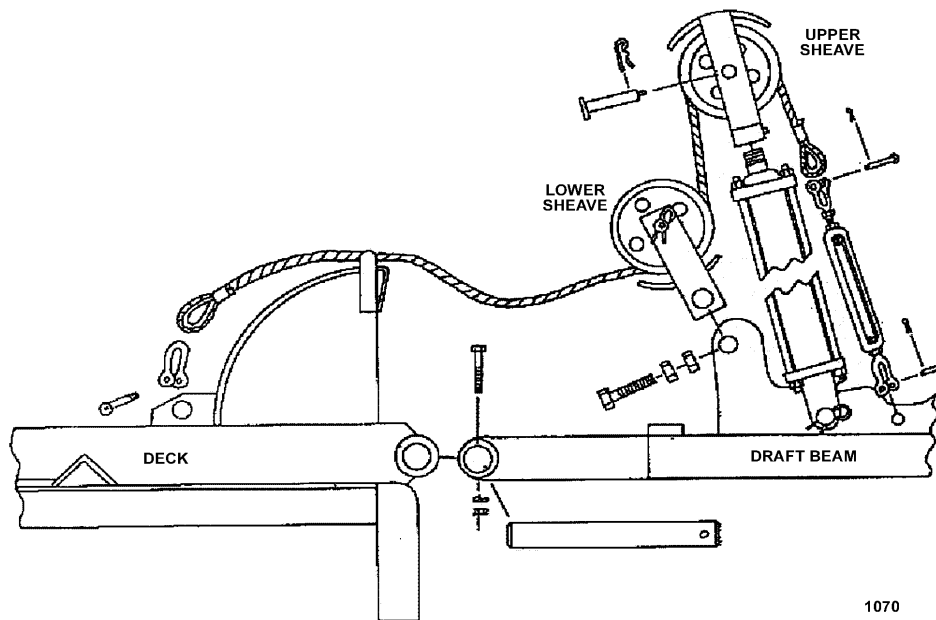
Pass the lift cable through upper sheave bracket and attach to turnbuckle with turnbuckle pin and cotter key. Attach turnbuckle to draft beam with turnbuckle pin and cotter key.

Place the cable in the upper sheave bracket with the cable on top of the wheel. Secure wheel with sheave pin (with grease zerk) and R-clip. Place lift cable in lower sheave below the wheel and install sheave with pin (with grease zerk) and R-clip.

The cable can now be attached to the deck mounting bracket with the shackle. Tighten shackle pin securely. **NOTE: DO NOT tighten the turnbuckle at this time!**

Refer to the Common Section for further reference and part numbers.

(ASM-CBL DRFT BEAM-0002)



TURNBUCKLE ADJUSTMENT

Extend the outboard cylinder until the deck touches the stop on the draft beam. Hold the deck in this position to adjust the lift cable tension. Adjust turnbuckle until cable is tight.

Lower and raise the deck to check adjustment. The mower deck should reach the stop on the draft beam at the same time the outboard cylinder reaches the extreme extended position.

Finally tighten the turnbuckle lock nuts securely. It will be necessary to readjust the turnbuckle after the cable has stretched from use. (ASM-SIDE MNTS-0005)



ASSEMBLY

LIMIT SWITCH MOUNTING

ASSEMBLING LIMIT SWITCH

Mount bracket 1-5/8" down from top edge on the inside of the rear arm of the draft beam, (Fig. A) square with inside corner as shown with the square corners against arm. Weld plate no more than 5/8" x 1/4" on top as shown.

Assemble limit switch with wheel on body side of arm and with the rear of arm mount aligned with fourth notch on arm as shown in Fig. C. Fasten limit switch cam to bonnet with the 7/16" x 3-1/2" pin bolt and flatwasher as shown in Fig. D.

ADJUSTING LIMIT SWITCH

To adjust switch do as follows:

1. With cam in place and pin bolt installed, raise mower to desired shutoff angle.
2. With pin bolt loosened turn cam until roller follower just reaches peak (see Figure E) and tighten pin bolt.
3. With switch arm mount screw (see Figure C) loose turn shaft (see Fig. E) with screwdriver in direction of follower rise while holding follower against cam peak until switch clicks off and hold while tightening arm mount screw.

WIRING LIMIT SWITCH

Remove top cover on switch to expose terminals. Connect red wire to either of the back terminals, and the black wire to the other back terminal. Cut the white wire to solenoid valve at a place closest to the tilt-angle switch. Connect the red wire to one of the cut ends and the black wire to the other end. This connects the switch in series with the solenoid valve. (ASM-C-0028)

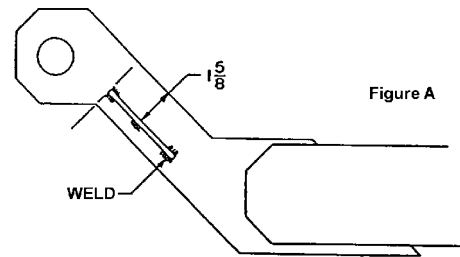


Figure A

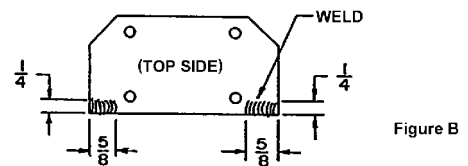


Figure B

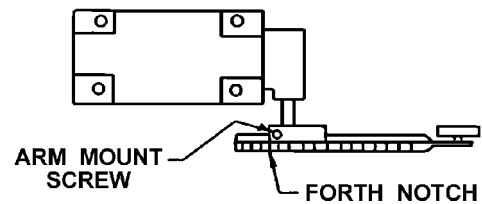


Figure C

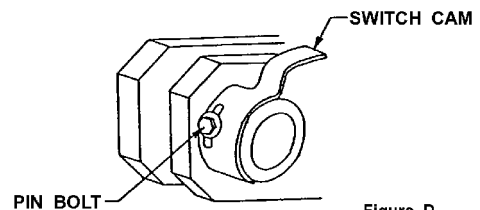


Figure D

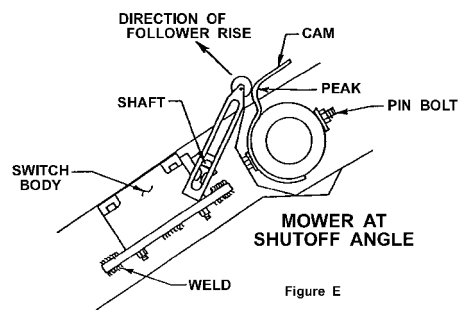


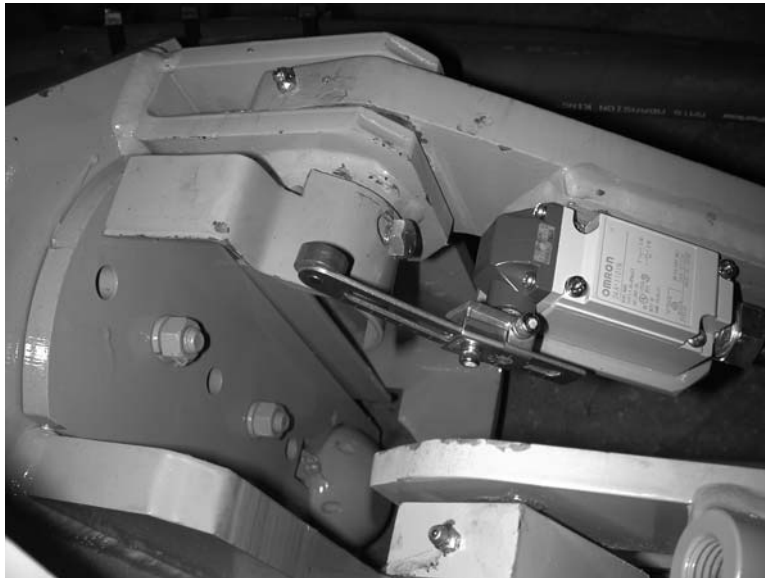
Figure E



ASSEMBLY

LIMIT SWITCH

(ASM-C-0029)



STOP BOLT ADJUSTMENT

Extend the outboard cylinder all the way out. Adjust the stop adjustment bolt (located on the top of the draft beam) out until it is up against the bonnet. Lock the bolt down with the $\frac{3}{4}$ " hex nut.

NOTE: When the outboard cylinder is fully extended, the bonnet or deck should either be up against the stop, or if travel locks are installed, it should be up against the travel lock. It may be necessary to use either external or internal slugs on the cylinder to get the correct stroke. If the cutter head is against the stop and the cylinder has stroke remaining, serious damage will occur.

(ASM-SIDE MNTS-0003)

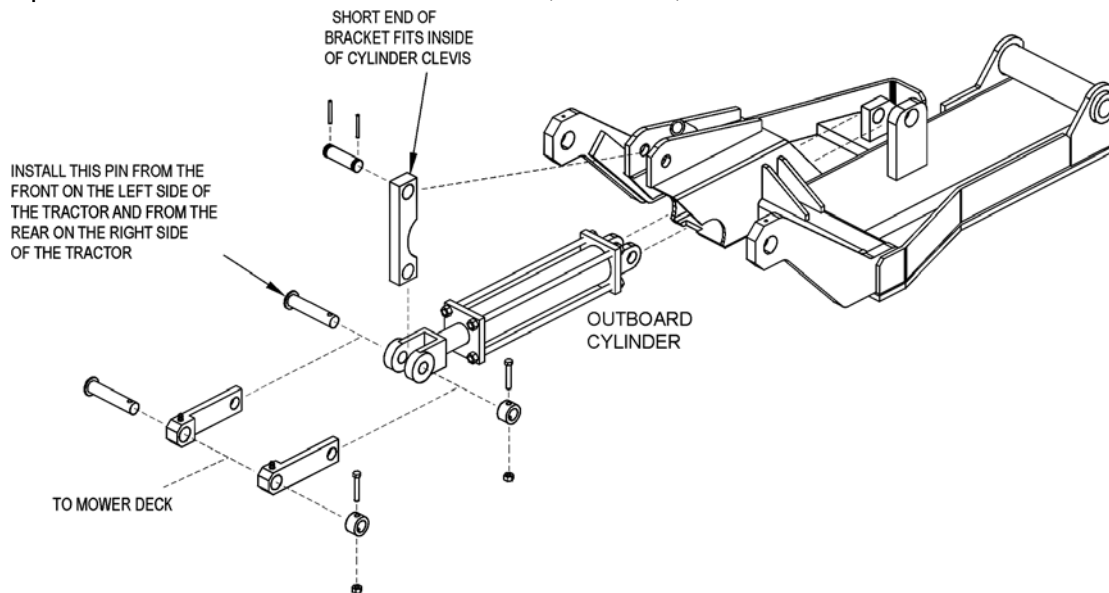


ASSEMBLY

MOWER MOUNTING

Check that all grease zerks have been installed in the draft beams pivot arm, left linkage arm, right linkage arm, and cylinder mounting ears.

Using a clevis pin and roll pins, connect the pivot arm to clevis on draft beam. NOTE: Make sure the longer distance between the cutout and the end of the pivot arm is closest to the draft beam pivot ears on the center tube as shown in the diagram below. Also make sure the cutout on the pivot arm faces into tube of draft beam. (ASM-C-0077)



Slide other end of pivot arm with short distance between the cutout and the end of the pivot arm, into the cylinder clevis. Next, line up the holes of the left and right lift linkage arms outside of the cylinder clevis holes. Connect with linkage pin, shims (as required), boss, capscrew, lockwasher and hex nut as shown.

To connect the bonnet to the draft beam, slide the extension arms of the draft beam between the mounting ears on the inner end of the bonnet. Line up the holes and secure with swivel pin, capscrew, lockwasher, and hex nut (both sides). See Parts Section illustration.

Next, slide the left and right linkage arms up to the slotted ear on the side of the deck. Secure with linkage pin, shims, boss, capscrew, lockwasher and hex nut. See illustration in Parts Section.

LIFT CONTROL FEEDLINES

Hose lengths will vary between tractor applications such as cab and non-cab units. See the Parts Section that pertains to your tractor for hose applications.

Install a hose from the bottom or inner valve port (behind cab for cab units, on stand for non-cab units) to the restrictor on the inboard cylinder gland.

Install a hose from the upper or outer valve port to the restrictor on the outboard cylinder butt. See Parts Section for part numbers and hose routing illustrations. (ASM-C-0093)

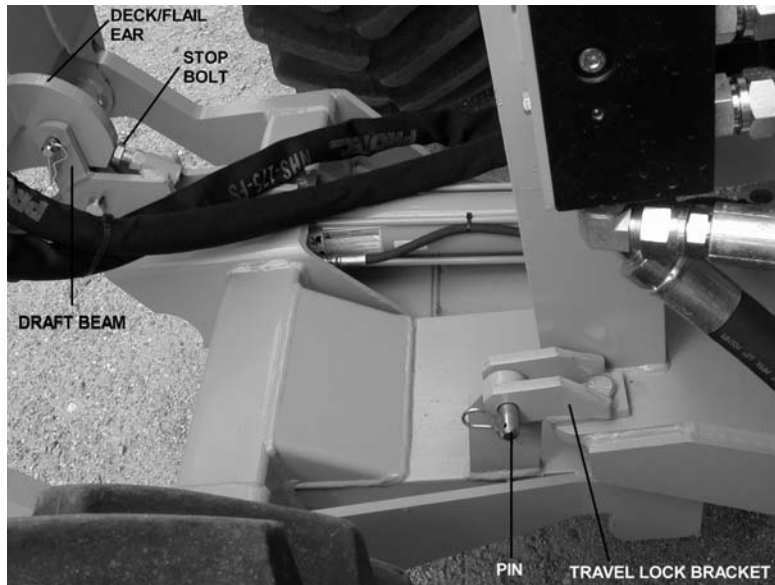


ASSEMBLY

TRAVEL LOCK MOUNTING

Install the travel lock bracket with pin and clip on the draft beam. Slide the draft beam and align the travel lock bracket hole with the mounting hole on the mainframe. Install the capscrew, lockwasher and hex nut as shown in the picture.

Raise the deck/flail to it's upright position (Deck ear touches to stop bolt as shown in the picture). Drill a 13/16" hole to the deck/flail ear through the draft beam as shown below. Insert the supplied pin and clip through the hole. (ASM-SIDE TRVL LOCK-0001)



DECK / MOTOR FEEDLINE

Install the 1" hoses from the motor to the solenoid valve. Refer to the Parts Section for detailed information about hoses and fittings for this application.

Install split hoses around hydraulic hoses where they contact sharp edges, or any other edges that may rub hoses.

Be sure that all grease zerks are installed in the draft beam pin bosses. Grease all areas of the draft beam according to the instructions in the Maintenance Section. Re-check all fittings for tightness.

Fill hydraulic tank with fluid as recommended in the Maintenance Section. **BE SURE TO OPEN THE BALL VALVES.** Start the tractor and operate the inboard cylinder through the entire stroke and the outboard cylinder through the bottom $\frac{3}{4}$ stroke repeatedly to clear the lines of air. **DO NOT run outboard cylinder out to full stroke until stop bolt has been adjusted!**

Check for oil leaks at all fittings and connections using a piece of paper or cardboard. If a leak is found, you must shut down the tractor and set the cutter head on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines. **DO NOT USE HANDS TO CHECK FOR FLUID LEAKS!**

Raise the three point hitch and check the tractor internal hydraulics, fill to proper level if needed. (ASM-C-0079)



ASSEMBLY

FINAL PREPARATION FOR OPERATION

Place operator's safety and operation decals on the steering column and side console where they are clearly visible to the operator. These decals should be understood by each operator of the machine in conjunction with the Safety and Operation Sections of this book. The decals are to be maintained in good condition as a reminder to the operator, and should be replaced if damaged.

All bosses, pins and pivot points will need to be greased as instructed in the Maintenance Section of this manual. The hydraulic reservoir can also be filled with the recommended fluid (see Maintenance Section) and the filter installed in the top of the tank. Double check all fittings and fasteners **BEFORE** starting tractor. Also secure any loose hoses together with zip ties and wrap with split hoses where friction may occur on the hoses.



BEFORE starting or operating the tractor you must read and understand the Safety and Operation Sections of this manual completely.

BE SURE THE BALL VALVES ARE OPEN! Start tractor and allow instruments to stabilize. Using a piece of paper or cardboard as noted in the Safety and Maintenance Sections, check all fittings and connections for hydraulic leaks.

If a leak is found, you must shut down the tractor and set the cutter on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines.

Before operating the mower, the cutter head and boom should be slowly moved throughout the full range of motion. Watch for any condition that would cause pinching or excess stress on the hoses. The steering and front axle travel should also be carefully moved through their full range of motion. If any condition occurs in which the hoses contact the tires, the steering and / or front axle travel may need to be limited as described in the tractor operator's manual. This should also be done if the tires rub, or are extremely close to any other part of the mower, such as the hydraulic tank or draft beam. This may include adding shims or adjusting stop bolts in the tractor front to solve the problem. While checking motion, you should also check that the control circuits are connected according to the operator's decal for the valve handles.

MOWER TESTING

Take the tractor to a place free of loose objects on the ground. Operate the cylinders through their full range of motion again, to clear the lines of air. Follow the instructions in the Operation Section to operate the mower. Vibration of the mower should be minimal at all times. After a 5 minute test run, the knife bolts should be retorqued, and retorqued once again after the first few hours of operation.

If any parts of this Assembly Section, or any other section of this manual are not clearly understood you must contact your dealer or the address on the front of this manual for assistance!*(ASM-C-0010)*



ASSEMBLY



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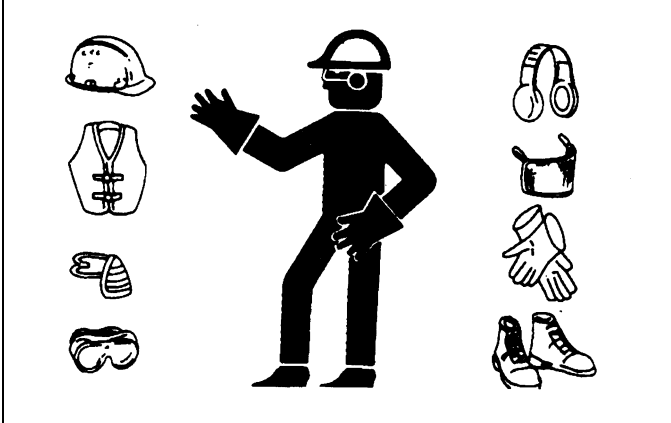
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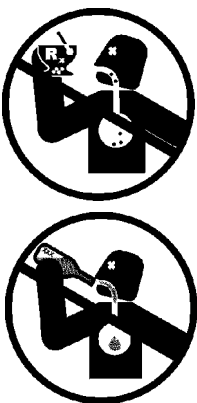
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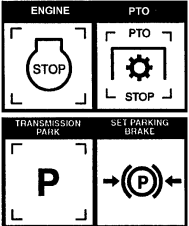
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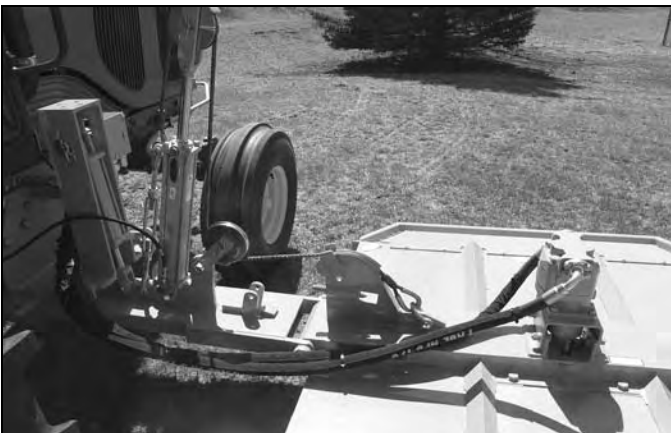


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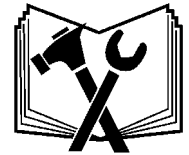


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Op-14

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NOTE: The mower Operator's Manual and affixed Decals contain important instructions on the safe and proper use of the mower. Maintain these important safety features on the mower in good condition to ensure the information is available to the operator at all times.

OPERATOR'S MANUAL

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Ops-1250

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YOU OWN THE MOWER

- " Read the manual before using the mower.
- " Do not drink alcohol or use drugs while operating the mower.
- " Do not operate the mower if you are tired or if you have taken any medication that may affect your ability to drive safely.
- " Do not operate the mower if you are under the influence of alcohol or any other substance that may affect your ability to drive safely.
- " Do not operate the mower if you are wearing any medication that may affect your ability to drive safely.



Ops-1235

Read the manual before using the mower. Do not drink alcohol or use drugs while operating the mower. Do not operate the mower if you are tired or if you have taken any medication that may affect your ability to drive safely. Do not operate the mower if you are under the influence of alcohol or any other substance that may affect your ability to drive safely. Do not operate the mower if you are wearing any medication that may affect your ability to drive safely.

OPS-R-215

WARNING

Read the manual before using the mower. Do not drink alcohol or use drugs while operating the mower.

Do not operate the mower if you are tired or if you have taken any medication that may affect your ability to drive safely. Do not operate the mower if you are under the influence of alcohol or any other substance that may affect your ability to drive safely. Do not operate the mower if you are wearing any medication that may affect your ability to drive safely.

WARNING

Read the manual before using the mower. Do not drink alcohol or use drugs while operating the mower. Do not operate the mower if you are tired or if you have taken any medication that may affect your ability to drive safely. Do not operate the mower if you are under the influence of alcohol or any other substance that may affect your ability to drive safely. Do not operate the mower if you are wearing any medication that may affect your ability to drive safely.

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ÜUVÖÿÿÁÒÖÖÁÐÜÚÖÖVÖÞ

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WARNING

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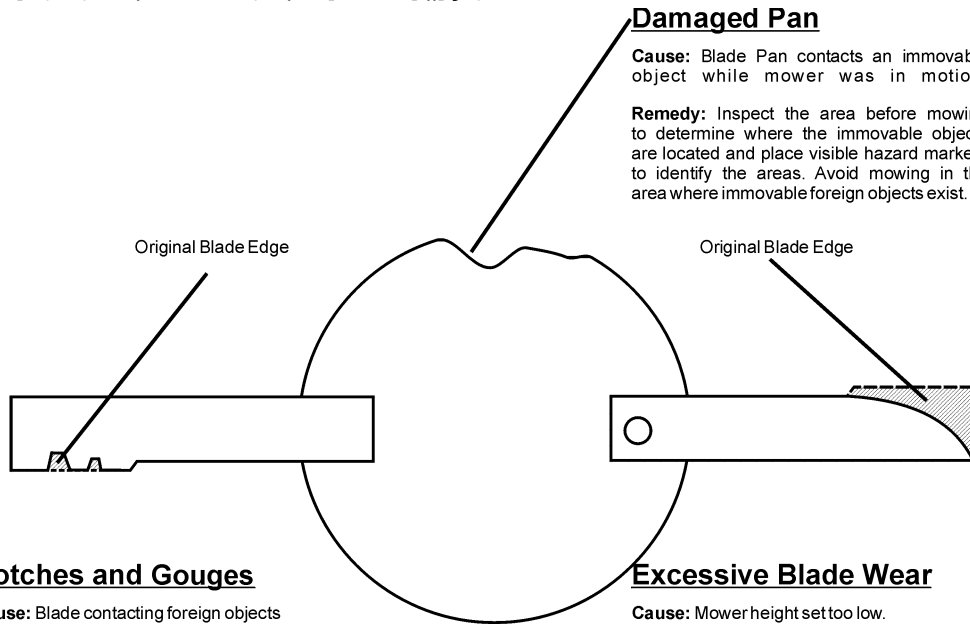
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Blade Damage

OPS-U-0031



Damaged Pan

Cause: Blade Pan contacts an immovable object while mower was in motion.

Remedy: Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist.

Notches and Gouges

Cause: Blade contacting foreign objects

Remedy: Inspect the area to be mowed and remove foreign objects that could cause damage to the blades

Excessive Blade Wear

Cause: Mower height set too low. Blade used past intended life.

Remedy: Replace blades more often. Adjust mower height for mowing. Conditions to eliminate blade-to-ground contact

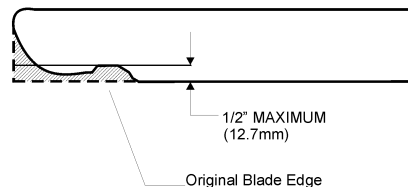
Op-22



WARNING: Blade damage can occur if the blade is not properly maintained. Always use proper mowing techniques and inspect the blade regularly for damage.

- Inspect the blade for damage before mowing.
- Replace the blade if it is damaged or worn.
- Always use proper mowing techniques.
- Adjust the mower height for mowing.
- Conditions to eliminate blade-to-ground contact.

Blade damage can occur if the blade is not properly maintained. Always use proper mowing techniques and inspect the blade regularly for damage. OPS-U-0032



NOTE:
Replace Blades in pairs after no more than 1/2" (12.7mm) wear
Op-23

CD9F5HCB

CD9F5HCB

Excessive Blade Bolt Wear

Q.] ^ & o @ A O | a a ^ A O [| o P ^ a a ^ A a a ^ A | A ^ a a e A | | , ^ a K

Excessive Blade Bolt Wear

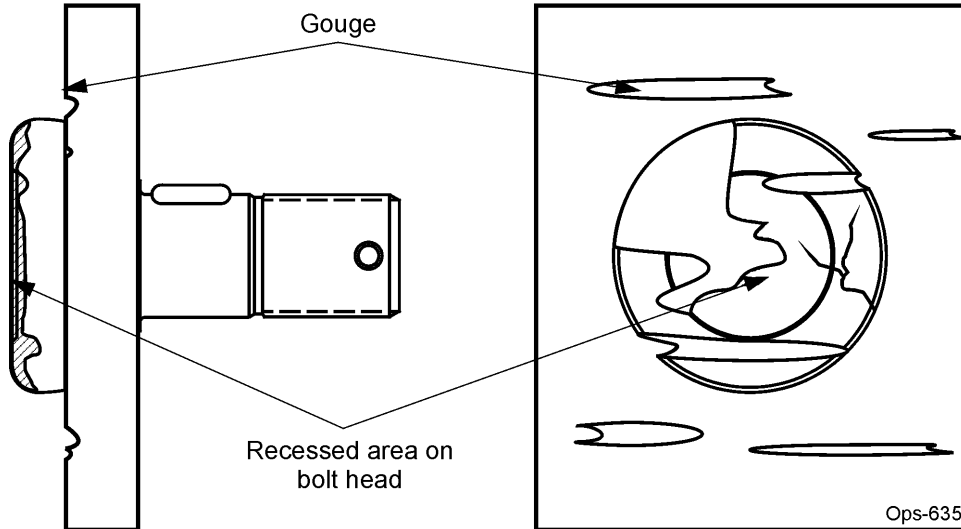
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

Remedy: Inspect the area before mowing to determine where the foreign objects are located and place visible hazard markers to identify the areas where immovable foreign objects exist, and avoid hitting the objects.

Notches and Gouges

Cause: Blade Bolt contacting foreign objects.

Remedy: Inspect area to be mowed and remove foreign objects that could cause damage to the blade bolt.



Q.] ^ & o @ A O | a a ^ A O [| o P ^ a a ^ A a a ^ A | A ^ a a e A | | , ^ a K

- ~ X a a | ^ A | a a . A | A
 - ~ Q a @ A ^ & . . ^ a a e a a } A | a a ^ A [| o P ^ A [|] A - A | A
 - ~ Q O | a a ^ A O [| o P ^ A [~ * ^ . A | A & Q] ^ a a e a e E
- O a a ~ | ^ A | A ^ | a a ^ A a a } [|] a a ^ A [| o P ^ a a e A | A a a e A | A a a e d [] @ A a a ~ | ^ A - A @ A | a a ^ A a a a A b & a } A -
 o @ A | [\ ^) A a a } @ A a a e A a a e . A ^ a a ~ . A [a a } b | ^ A | A a a e E

5 ' k U n g ' f Y d ' U W ' 6 ' U X Y 6 c ' l g ' k] H ' b Y k ' V c ' l g ' k \ Y b Y j Y f ' f Y d ' U W] b [' H Y 6 ' U X Y g ' A O P S - U - 0 0 3 7

U O O A U U V O E Y U] ^ | a a } A ^ & a } A e I

CD9F5HCB

Tractor PRE-OPERATION Inspection



Mower ID# _____ Make _____

Date: _____ Shift _____



WARNING 6 YZ:fY Wc bXi Wj b['H Y] bgdYWj cbža U_Y gi fY'H Y'fUWcf 'Yb[]bY'jg'cZZU''fcHUjcb \ Ug'gfcddYX'UbX'H Y'fUWcf 'jg'j'b'dUf_'k]H 'H Y'dUf_]b['VfU_Y'Yb[U] YX''AU_Y'gi fY H Y'a ck Yf 'jg'fYgh]b['cb'H Y[fci bX'cf'gYW fY mV'cW_YX'i d'UbX'U''\ mXfUi 'jW dfYggi fY\ Ug'VYyb'fY]j YX"

Item	Condition at Start of Shift	Specific Comments if not O.K.
The flashing lights function properly		
The SMV Sign is clean and visible		
The tires are in good condition with proper pressure		
The wheel lug bolts are tight		
The tractor brakes are in good condition		
The steering linkage is in good condition		
There are no visible oil leaks		
The hydraulic controls function properly		
The ROPS or ROBS Cab is in good condition		
The seatbelt is in place and in good condition		
The 3-point hitch is in good condition		
The drawbar pins are securely in place		
The PTO master shield is in place		
The engine oil level is full		
The brake fluid level is full		
The power steering fluid level is full		
The fuel level is adequate		
The engine coolant fluid level is full		
The radiator is free of debris		
The air filter is in good condition		

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

V@AQ·^&ā } A] ;{ Á æ Á^Á^Λ^ Á~]|ææ^áÁ!Áccā&|] ā•È

ÙÖÒÄÜUVOÿÿ

U] ^!æā } Á^&ā } ÁÈï

CD9F5HCB

CD9F5HCB

Side Rotary Mower PRE-OPERATION Inspection



Mower ID# _____ Make _____
 Date: _____ Shift _____



WARNING 6 YZ:fY'WbXi W]b['h Y]bgdYW]cbžā U_Ygi fY'h YfUWcf`Yb[]bY]g'cZZU``fcHU]cb
 \ Ug'głcddYX'UbX'h YfUWcf`]g]b'dUf_k]h 'h YdUf_]b['VfU_YYb[U] YX" AU_Ygi fY
 h Y'a ck Yf`]g'fYg]b['cb'h Y[fci bX'cf'gYW fYmV'cW_YX'i d'UbX'U` \ mXfUi `]W
 dfYggi fY\ Ug'VYyb'fY]Yj YX"

Table 1:

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Operator's Manual is in the tractor		
All safety decals are in place and legible		
The hydraulic cylinders pins are tight		
There are no leaking or damaged hoses		
The mower deck is clear of cut grass and debris		
Chain guards/deflectors are in place & in good		
Blade carrier retaining nut is tight		
Blades are not chipped, cracked or bent		
Blade bolts are tight		
Wheel lug nuts are tight		
Transport locks are in good condition		

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

CD9F5HCB

CD9F5HCB

+* '8 f]i]b] 'H YHfUWcf 'UbX'a d`Ya Ybh

Úcœœ -Áiãq *ÁœÁÁ[[, Á]^^áÁœ áÁiœœ œ^ Áœ &^œ^Á[~iÁ]^^áÁ @^Á œœ œq *Áœ { }|^œ^Á}d[|Á -Á@
 dœd[|Áœ áÁ} ãËN [çq *Á[[,]^ÁœÁ•œ q]Áœ [Á|^ç^] œ@Áœd[|Á[{ Á^œq *Á] Áœ áÁ[••Á -Áœ^iã *Áœ]d[|É
 V@Áœd[|Á @~|áÁ^ç^iÁ^Á] ^iœ^áÁœÁ^^á•ÁœœÁœ} [œ^Áœ^iÁœ á|áÁiÁ @œ q]Á|^ç^] œ@
 []^iœ[|Á[{ Ád]]q *Á~ œ|^Á~iã *Áœ Á{ ^i^} & ËQ@Á[, ^iÁœ^iã *ÁiÁ] *q^Áœ^•Á] ^iœq *É d]
 œ@Áœd[|Á { ^áœœ|^Áœ ÁœÁœd[|Á q]Á^Áœã-œ |œ Áœ]d[|É

Ú^i-|{ Ác }•Á œœ@Áœd[|Áœ áÁ} ãËN [[, Á]^^á•Á Áœ^œi{ q^ÁQ, ÁœÁœd[|Á œœÁ Áœœœ@áÁiœ^Á:
 iœ^Áœ á|Á•Áœ^i} ËO^œi{ q^Áœ@Áœ^Á]^^áÁ Áœ œœ Ái|]|^Áœ]d[|Á -ÁœÁœd[|Á @} Áœ q *Ác }•É
 Y @} Ác } q *Á œœÁ, ^áÁ]|^ ^} Ëœ@Áç^iœÁ [i]q *Á} *œÁ -ÁœÁ} ãÁ Áœ &^œ^áËO[[, Áœáãq} œ
 &^œœ &ÁiÁœÁ} ãÁ @} Ác } q *É

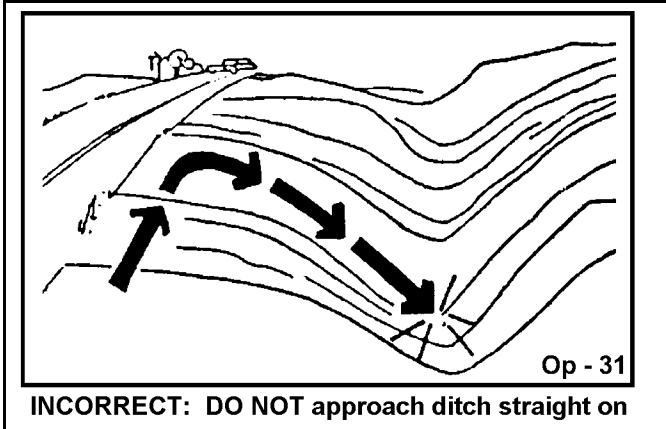
V[Áœ[ãÁç^iç }•Éiã^Áœ@Áœd[|Á œœÁœ^Áœ áÁœ^Áœ^Á^^á•É•^&œ^Á @} Á] ^iœq *Áç^iÁ[~ * @
 *i|~} áË[[••q *Áœœ@ÁiÁ[[^•Éœ áÁc } q *Áœ]|^ ËVœd[|Á @^iÁ^œÁ] œq *Á @~|áÁ^Áœ &^œ^á
 , @} Á [i]q *Á} Áœ &q^ÁiÁ[~ *œ^i|~} áÁ Áœ^Áœ@Á[••œq^Á Áœ] q *É

W^Áœd^ ^Áœœ q} Á @} Á] ^iœq *Á] Áœ^Á Á[[^•Ë^ Áœ@Áœd[|Á ÁœÁ, Á^œÁ @} Á[q *Áœ[, } @ËO
 PUVÁœ œœ ÁiÁ^É @^Áœ[, } @ËOPS-U-0014

+*+*

Y @} Áœ]-|{ ç^áÁ œœÁ Áœ &q^ÁiÁœœœÁ [Ác
 œ]]| œœÁ[{ Áœ Áœ *|^Á @œÁ^i}^} áœ |œÁ:
 •dœ @Á} Áœ Áœ œ^Á œÁ &^É

Y @} Áœ[••q *Á~ &œ^iœ ËœÁ]|^ ^} œ @~|á
 á^Á]|^ Á, ^i^áÁiÁœÁ, ^iÁœ^œ^iÁœœ Áœ á
 œá^áÁœœœ ËOPS-R-206



ÚœœÁUUVœÿ

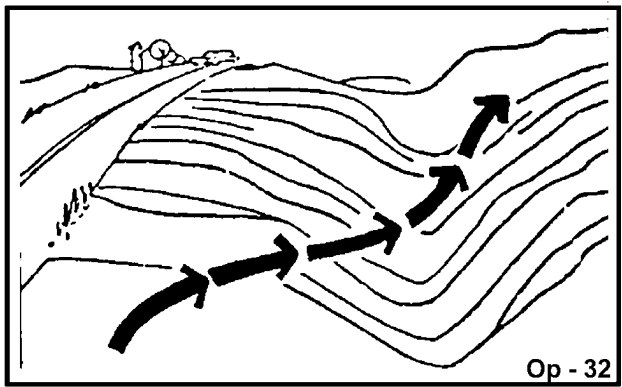
U] ^iœq } Á^&q } ÁË

CD9F5HCB

CD9F5HCB

Q&ja ^•Ae a^A&@•A @ |a^A^Ae | | a&@a^Ae } *Ae
|a^A @&@A^Ae } *^Ae A @ , } EAV@Ac] ^A ~
] ae@A |A^a^ &^A@A [••a&ac A^A^ |ca *Aae ae^E
Q^@A^:aa^ } o^A [A^c^] A^eA^ &@Ae } | | a&@
a^ &^ae^•A@A [••a&ac A^A^:aeq |A [|E c^A^A^&c
ae } A^c^] ae^A [••a^ *A ae@A

Y @ } A] ^ | aae * A @ A^:aeq | Aae aA [, ^ | Aae [••
• |] ^•Ae a^Ae &ja ^•E@ [~ * @A^&@•Eae aA c@ |
~ } ^c^ } A^:aa^ A [] aae } E^A^A [] | | cae o^A ae^ae
• ~ae^ } o^A&A^A [] ~ } a^A^aeae &^E^A^ae^A [] ae^c
, ae@A^A [] ~ } aA ae^Ae^•A^ [qE^A [&^Ae aA c@ |
a^a^a^A^ A^A^A@ [, } A^ o^A [{ A^ } a^A^A@A [, ^ |
|^• |ca^ *A^A [••a^ |A^ b^ | A^ ae^A^A [] | | c^ Aae ae^E
O [] ~ } a^A [] ae^o^a^ [A [] a^ &^A^A^c^A^A^ Q &A^ ae
[] A@A [, ^ | A^:a^Ae a^A^ A@A [, ^ | A^:aa^•
|^• |ca^ *A^A [••a^ |A^ae ae^Ae^ aA] ^ { ae^ |A^ ^aeE
OPS-R-207



Op - 32

CORRECT: Approach ditch at an angle

CD9F5HB; H<9 HF57HCF 5 B8 AD@A9BH

H<9 CD9F5HCF AI GH7CAD@H9 @MI B89FGH5 B8 <CK HC CD9F5H9 H<9 HF57HCF 5 B8
AD@A9BH5 B8 5 @7CBHFC @69: CF9 5HH9ADHB; HC CD9F5H9 "A@A] ^ | aae | A ~ •o^A^ae^Ae a
~ } a^A^ae^ a^A@A^ae^c^Ae a^A] ^ | aae } A^&ca } •A^ A@A [] ^ | ^ } o^A a^A^aeq | A] ^ | aae | qA^ ae^ ae^ EAV@•^
{ ae^ ae^A^ •o^A^A^ae^Ae a^A^c^] ae^ a^A^ A^ A^] ^ | aae | A^ Q &ae^ } [o^A^ae^E^A^c^A^A^A^ [, A [{ ^ |] ^ | A^A^A^] ^ | aae^ A@
a^] ^ | ^ } o^A a^A^aeq | A^ ae^ o^A [] | | c^A^] ^ | aae^ *A^ •d^ &ca } •E

O^ | | A^ ae^ca^ *Ae^ A^] ^ | aae } E^A@A^] ^ | aae | A^ ~ o^A^& [^Aae qae^A^ ae@A@A^ae^A^ A^A^] | | ^a^Ae^ a^Ae^ ^
[a^ae^A^•Ae^ a^A@e^ ae^a^A^] ae^ a^A^ ae^ca^ A^ A^ } •|^A^ae^c^A^ A@A^] ^ | aae | E^A^•ae^ a^A^ E^A^ a^A^ q { ^ } E^A^] ^ | aae^
ae^ } ca^ } A^ Q ~ |a^A^A^ ae^A^ A^ | A^ } A^a^a^ E^A^ ~ * @A^:aa^ E^A^c^A^] A [] ^•Eae^ aA^ ae^•|^•a^ A^e^ a^Ae^ a^ ae^ A^ A@A^ae^
OPS-U- 0015



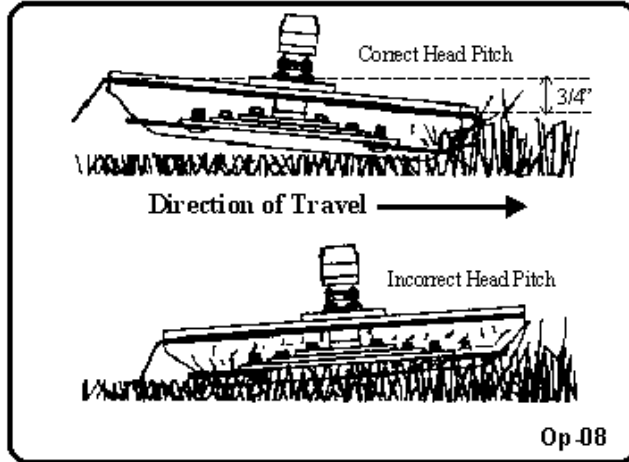
Ocd^ { ^Aae^A^ @ |a^A^Ae^ } A^ @ } A] ^ | aae^ *A^ae^A [•^A^ ab^&•A^ &
ae^ A^:ae^ | E^A [&^ E^A^ a^ E^Ae^ a^A^ c@ | A^a^a^ E^A^Q •] ^ &o^A@A^ae^ae^A^ | ^
{ [, a^ * E^A^] ^ | a^ } A^ ab^&•A^ @ |a^A^A^ { [c^a^A^ [{ A@A^ ae^A^ A^ | c^ } c
{ ae^ca^ A^ae^ ae^A^ae^ ae^A^ae^ | a^ A^ b^ | A^ A^ c^ } A^ ae^E^A^E^ A^ ab^&•A@e
&ae^ } [o^A^A^ { [c^a^A^ ~ •o^A^A^ae^ | A^ ae^ a^A^ae^ a^Ae^• | | A^ae^ ae^a^A^ A@
[] ^ | aae^ | E^A^U^] A [, a^ * A^ { ^a^ae^ | A^ae^ae^•A^ d^a^A^ae^ | A^ } A^ ab^&c^
U^] ae^A^A^ae^ ae^A^ae^ aA^ ae^A^A^ae^ A [q | A^ | A^ | ae^A^ae^ | a^ A^ ae^ae^ &a^
a^ | | A^A^• { a^ * A [, a^ * E^A^OT H^ D



U^O^O^A^U^V^O^E^Y U] ^ | aae^ } A^&ca^ } A^E^G

CD9F5HCB

CD9F5HCB



A95 GI F9A9BHC: <958 D=H7<

FÈ ÔWÁT UY ÔÜÁÚØØØP ÔÁÖŠŠUY ÁÖŠÖÖÜÁ/UÁUVUÚÁÜUVÖEØ Ö

GÈ T [Ç^Á æ@^Á Á@ÁæÁ^Ç^Áæ^æ~ &@æ ÁæÁ] &^Ç^Áæ

HÈ Š [^Á [, ^Á@æÁ Á æ@ Á^Ç^Áæ &@^Á Á@Á [~] áæ~ ÖÁ [Á^ Ç^ÁæÁ] Á [~] áÈ

I È ÛÇ] Á } * ç^ÁÈ

I È Û [•æ] Áææ^Á Ç , æáÁ [] Öæ áÁ^æÁ^T ^æ ~ ^Á@Áææ çæ &^Á [{ Á@Áæ [Ç [Á Á@Áæ |æ^Á çæ Á Ç Á@ * [~] áÈ æ@Áæ |ææ^Á çæ * ç ^ ÇæÁ^ ÇÁV^Á Ç [Á [] ^Á Á ^æ ~ ^ÁÈ [{ æÁæÁ æÁ Á@Áæ |æ á^Á ç [ææ^Áæ æ& |ææÁ ^æ ~ ^Á { } ÖÁ@Á [] Öæ áÁ^æÁ [Ç ^æ ~ ^Á ÁæÁ@Á æ ^Áæ ^ÈÖUÁUVÁÖŠŠUY ÖUVPOÜÁÚÖÜÜPÁUÁÚÖÖÖ/ÖÁPOÁÚPÁVÜUSUÁ PÖÖÁ ÖÖWÜÖT ÖP VÜÁÖÜÖÁÖÖ ÖÁÖŠÖP È I È Ö } Öæ |ææ^Á Èææ Öæ çæ Èæ |Á [^Á | Ö Á çÁ æ^Á ^æ ~ ^Á { } Ö Á^Á^• È

5 Ç BA9BH

P^æÁæÁ { ^ } ÖÁ Á^ ç^Áæ Á@Á^æ } • Ç Á Á@Á } Ç | ç ^Á Á@Á [, ^Á Á@Á } Ç | ç ^Á Á@Á æÇ | ÈV@ á^á^áæÁ { ^ } ÖÁ Á@Á@Á } Ç | ç ^Á Á@Á æÇ | Á ç Á [, ^Á Á^Á æÇ^Á ÁæÖ Ç @ | È

T æ çÁ { ^ } ÖÁ } Ç æ~ Ç^Á ÁæÇ^æ ç * Á^ ^Á Á@Á | æÁ @^Áæ ç * Áæ Áæ^Á çÁ Á^ Áæ • ÁæÈV Ç Áæ } ^á * |æ • Á Á [{ ^ Ç ^Á [Ç æ | áÁ] Á Á@Á [, ^Á } Á ~ á^ ~ ^ } Ç æ • Á ÈT æ çÁ { ^ } ÖÁ [Á] Ç æ~ Ç^Á ^ Ç & • ç^Á [, ^Á] • { } Ç } Á^ææ • Á@ÁæÁ | á@Á } áÁ ÁÁ : ^Á æ | æÁæ çæ • Á@ÁæÁ Á@Á [, ^Á È æáá ç * Áæ Á Á@ÁæÇ | È

ÖÁ { ^ } Ç | [á^ { • Á çæ ç Áæ^Á } Á Á çæ çá ç Á@Á [] Ç | Á^æÁ Á@Á æÇ ^ÈÖÁ } Á@Á [] Öæ áÁ^æ [Á@Á æÇ ^ÈÖÁ } Á@Á [] Öæ áÁ^æÁ á^Á Á@Á^æÁæÁ çÁ }] æ^Á Á@ÁæÁ | á@Á Á@Á [, ^Á Ç [, ^Á@æÁ^ ç * Á } Á@Á [~] áÈ

ÛÖÖÁUVÖÿ U] ^æ } Á^ & ç } Á È Ç

CD9 F5 HCB

CD9 F5 HCB

- "&7 cbffc`@WUjcb`UbX: i bWjcbg

V@Á ã^Á [, ^!Á@ã @ÁÁ } d[||^áÁ ã@ÁÁ [Á!Á@^Á] [[Áçç^Áç áÁÁ [|!áá æ^áÁ Á @, } Á^ | [, ÉV@ [] ç } çÁ@^Á] [[|Áçç^Áç | , • Á!Á@Á ^!æ } Á Á^áÁ ç Á [, ^!Á!Á ã^ÁÁ @!ÉÁ@Á) çÁ Á ~ á] ^á , ã@Á@^Á] [[|Áçç^Áç [Á [ç] ^!æ Á@Á@áÁ] [[|Áçç^Áç] | • Á^áÁ ç Á [ç ^!ÁÁ @!ÁÁ [~] ç^É



Ops-1246

V@Á çÁ [, ^!Á@ã @ÁÁ } d[||^áÁ ã@ÁÁ [ç çÁÁ] d[|Áçç^Áç | | [, Á@Á • d' &ç } • Á!Á@Á } d[|Áçç^Áç | | ^!æ | ç Á ç ~ çÉV@ÁçÁ Á@Á çÁ [, ^!ÁÁ } d[||^áÁ ã@Á@Á] [[|Á Á@Áççç^Áç áÁÁ & [|!áá æ^áÁ Á @, } Á Á] i fYCdgl!%& * "

V@Á ã^Áç áÁ^áÁ [, ^!Á [• ç] • Á ç Á [ç] ç Á ÁÁ } d[||^áÁ ã@Á@Áçç | ç Á { [çÁ@á!æ | ç] } ^&ç } • [|Áçç^Áç { áá ç } Á Áççç^Áç áÁ^ [çÁ@á!æ | ç ÉÁ [ÉÁ^ç { ç Á ç ç [• ç] Á Á@Á ã^Á!Á^áÁ [, ^!Áç ç ÁÁ } d[||^áÁ Á çç^Áç [ç Á ç^É

V@Á ã^Á [, ^!ÁUÞÉÜÁ, æçÁ Á çæ^áÁ Á, æçÁ [ç] ç^áÁ Á@Áçç^Áç ç Á!Áçç^Áç } d[|Áçç^Áç [] É çæÁ ç áÁçç^Áç ç Á^ • ^&ç^ | ÉÁ [^!æ } Á^áÁ ç Á [, ^!É@ÁUÞÉÜÁ, æçÁ Á çæ^áÁ Á@Á, æçÁ [ç] ç @ çÁ çÁ [, ^!Á, æç

V@Á çç^Á ç Á^áÁ ~ á] ^áÁ ã@Á Á ç çÁ^ Á ç [^!æ | ^Á ç ^ Á ç] Á ç ^ Á! Á ç] ^ • ^!Á ç ^ Á ç [ç] ^!æ | ^Á ç @ Á çç^Áç ç [Á [, ^!Á ç áÁ^ Á fci VYg| cçh|b| 'GYWjcbÁ | Á [• ç^Á ç • ^ ÉÁ] ç áÁ^ Á } ç Á ç ^ Á | Á ç ç } Á Á | à^ { • É

CD9F5HCB

CD9F5HCB

Y @}Á } & [~} c`lq * Áa^i`Á^ç`i`^Á [}`ãã }Á @B@Áeē •^•Á@Áiædq |Á Á cç|Eã^ } * æ^Á [, ^iEã cãóÁædq |É
 iæ^Á@Á [, ^iÁ [{ Á@Á & cÁ@Á cÁædq |Á ~Á aÁ } ^&Á@Á [, ^iEã iæ^Á } aÁã^Á |Á iÁæ æ^ÁÁ^i`
 ^} * æ q`Á [, ^iÁæ æÉ

Qã@Á iæ^Á • Áæ Á |Á d] Eã^ } * æ^Á@Á [&@Á aÁæ^Á@Á cãÁ jã @`Á |Áæã Á@Áædq |Á Eã [i: æ^Eã
 , qÁÁ^æÁ@Á c`i`Á cãEã [dÁ @ oÁ ~Á@Á [, ^i Q Eã iæ^Á@Á c`i`Á cã • Eã i } Á ~Á@Áædq |Á aÁ^ó@
] æ q`Á iÁæ^Eã c`i`Á [c`Á] • Á [] |`c`i`Eã aÁ@Áædq |Á aÁÁ^æÁ@Á cã * Á cã Á æ`æ^É

**5ZYf`h`Y`ZfghXUmcZcdYfUjcbZU`Vc`Iy`gl`ci`X`VY`W`Y`X`Ub`X`h`[`HybYX`gYW`f`Y`nt`V`@`Á`@`|`a`Á`Á` }`^`
]`i`q`ã`æ`i`Á`Á` •`i`^`Á`@`Á`|`o`Á`Á`[`o`Á`&`[`^`Á`[`•`Á` a`Á`eē`•`Á`æ`æ`^`Á` Á@Áædq |Á |Á [, ^iEã |Á b`i`^`Á` Á@
 [] ^iædq |É**

Y @}Á [~Á^oÁ Á@Á) aÁ -Áa æ • Eã jã @`Á Aã^Á@
 { [, ^iÁ cE +Dã^i`i`^Á` } } q` * Eã^ç`i`Áæ^Á@
 { [, ^iÁ } cã^i`Á @`Á@Á iæ^Á • Áæ^Á` } } q` * Eã Á@
 { [, ^iÁ ~• cã^Áæ^Á@Á @Á@Á Á GÁ [{ Á [~ } a
 |ç^i`Eã^ } * æ^Á@Á [, ^iÁ aÁ æÁ iÁ Á [, ^i
 i: cã] Á Á [{ ^Á Á Á [}] |ç`Á d] Á^i`
 i: [&^ã q`Á Áæ^Á@Á [, ^iEã OXÓUÁæ^Á@
 { [, ^iÁ @`Á@Á iæ^Á • Áæ^Á` } } q` * É



OPS-R-212



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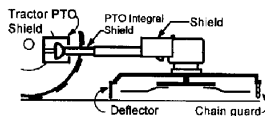


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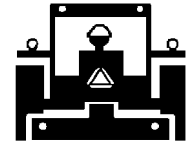
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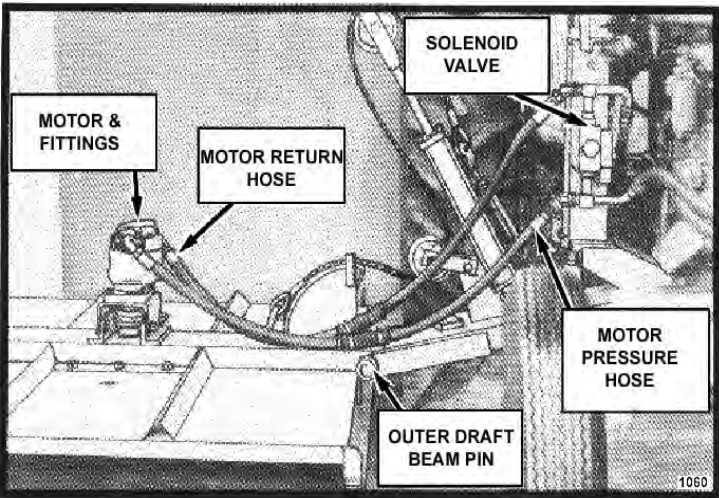
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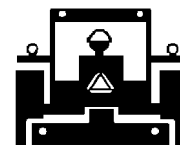


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NOTE: If flow meter is available, check pressure and flow volume for all suspected hydraulic problems.

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Torque for Standard Fasteners

| Nominal Dia.
(in.) | threads per inch | Grade 2 | | | Grade 5 | | | Grade 8 | | | Grade 9 | | |
|-----------------------|------------------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|------------|-----------|
| | | Tightening Torque | | | Tightening Torque | | | Tightening Torque | | | Tightening Torque | | |
| | | Lubed | Dry Plated | Dry plain | Lubed | Dry Plated | Dry plain | Lubed | Dry Plated | Dry plain | Lubed | Dry Plated | Dry plain |
| | | K = 0.15 | K = 0.17 | K = 0.20 | K = 0.15 | K = 0.17 | K = 0.20 | K = 0.15 | K = 0.17 | K = 0.20 | K = 0.15 | K = 0.17 | K = 0.20 |

Unified Coarse Thread Series

| Nominal Dia. (in.) | Threads per inch | 49 in-lbs | 59 in-lbs | 66 in-lbs | 76 in-lbs | 86 in-lbs | 101 in-lbs | 107 in-lbs | 122 in-lbs | 143 in-lbs | 126 in-lbs | 143 in-lbs | 168 in-lbs |
|--------------------|------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 1/4 | 20 | 49 | 59 | 66 | 76 | 86 | 101 | 107 | 122 | 143 | 126 | 143 | 168 |
| 5/16 | 18 | 101 | 122 | 135 | 157 | 178 | 209 | 221 | 251 | 295 | 259 | 294 | 346 |
| 3/8 | 16 | 15 ft-lbs | 18 ft-lbs | 20 ft-lbs | 23 ft-lbs | 26 ft-lbs | 31 ft-lbs | 33 ft-lbs | 37 ft-lbs | 44 ft-lbs | 38 ft-lbs | 43 ft-lbs | 51 ft-lbs |
| 7/16 | 14 | 24 | 29 | 32 | 37 | 42 | 49 | 52 | 59 | 70 | 61 | 70 | 82 |
| 1/2 | 13 | 37 | 44 | 49 | 57 | 64 | 75 | 80 | 90 | 106 | 94 | 106 | 125 |
| 9/16 | 12 | 53 | 63 | 70 | 82 | 92 | 109 | 115 | 130 | 154 | 135 | 153 | 180 |
| 5/8 | 11 | 73 | 87 | 97 | 113 | 128 | 150 | 159 | 180 | 212 | 186 | 211 | 248 |
| 3/4 | 10 | 129 | 155 | 172 | 200 | 227 | 267 | 282 | 320 | 376 | 331 | 375 | 441 |
| 7/8 | 9 | 125 | 150 | 167 | 322 | 365 | 429 | 455 | 515 | 606 | 533 | 604 | 710 |
| 1 | 8 | 187 | 225 | 250 | 483 | 547 | 644 | 681 | 772 | 909 | 799 | 905 | 1065 |
| 1 1/8 | 7 | 266 | 319 | 354 | 596 | 675 | 794 | 966 | 1095 | 1288 | 1132 | 1283 | 1510 |
| 1 1/4 | 7 | 375 | 450 | 500 | 840 | 952 | 1121 | 1363 | 1545 | 1817 | 1597 | 1810 | 2130 |
| 1 1/2 | 6 | 652 | 783 | 869 | 1462 | 1657 | 1950 | 2371 | 2688 | 3162 | 2779 | 3150 | 3706 |

Fine Thread Series

| Nominal Dia. (in.) | Threads per inch | 56 in-lbs | 68 in-lbs | 75 in-lbs | 87 in-lbs | 99 in-lbs | 116 in-lbs | 123 in-lbs | 139 in-lbs | 164 in-lbs | 144 in-lbs | 163 in-lbs | 192 in-lbs |
|--------------------|------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 1/4 | 28 | 56 | 68 | 75 | 87 | 99 | 116 | 123 | 139 | 164 | 144 | 163 | 192 |
| 5/16 | 24 | 112 | 135 | 150 | 174 | 197 | 231 | 245 | 278 | 327 | 287 | 325 | 383 |
| 3/8 | 24 | 17 ft-lbs | 20 ft-lbs | 23 ft-lbs | 26 ft-lbs | 30 ft-lbs | 35 ft-lbs | 37 ft-lbs | 42 ft-lbs | 49 ft-lbs | 43 ft-lbs | 49 ft-lbs | 58 ft-lbs |
| 7/16 | 20 | 27 | 32 | 36 | 41 | 47 | 55 | 58 | 66 | 78 | 68 | 78 | 91 |
| 1/2 | 20 | 41 | 49 | 55 | 64 | 72 | 85 | 90 | 102 | 120 | 105 | 120 | 141 |
| 9/16 | 18 | 59 | 71 | 78 | 91 | 103 | 121 | 128 | 146 | 171 | 151 | 171 | 201 |
| 5/8 | 18 | 82 | 99 | 110 | 127 | 144 | 170 | 180 | 204 | 240 | 211 | 239 | 281 |
| 3/4 | 16 | 144 | 173 | 192 | 223 | 253 | 297 | 315 | 357 | 420 | 369 | 418 | 492 |
| 7/8 | 14 | 138 | 165 | 184 | 365 | 403 | 474 | 502 | 568 | 669 | 588 | 666 | 784 |
| 1 | 14 | 210 | 252 | 280 | 542 | 614 | 722 | 765 | 867 | 1020 | 896 | 1016 | 1195 |
| 1 1/8 | 12 | 298 | 357 | 397 | 668 | 757 | 890 | 1083 | 1227 | 1444 | 1269 | 1439 | 1693 |
| 1 1/4 | 12 | 415 | 498 | 553 | 930 | 1055 | 1241 | 1509 | 1710 | 2012 | 1768 | 2004 | 2358 |
| 1 1/2 | 12 | 734 | 880 | 978 | 1845 | 1865 | 2194 | 2668 | 3024 | 3557 | 3127 | 3544 | 4169 |

Torque values for 1/4 and 5/16 in series are in inch-pounds. All other torque values are in foot-pounds. K = 0.15 for "lubricated" conditions D = Nominal Diameter
 Torque values calculated from formula T=KDF, where K = 0.17 for zinc plated and dry conditions F = Clamp Load
 K = 0.20 for plain and dry conditions

Torque-Tension Relationship for Metric Fasteners

| Nominal Dia. (mm) | Pitch | Class 4.6 | | | Class 8.8 | | | Class 10.9 | | | Class 12.9 | |
|-------------------|-------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|-----------|
| | | Tightening Torque | | | Tightening Torque | | | Tightening Torque | | | Tightening Torque | |
| | | Lubed | Dry Plated | Dry plain | Lubed | Dry Plated | Dry plain | Lubed | Dry Plated | Dry plain | Lubed | Dry plain |
| | | K = 0.15 | K = 0.17 | K = 0.20 | K = 0.15 | K = 0.17 | K = 0.20 | K = 0.15 | K = 0.17 | K = 0.20 | K = 0.15 | K = 0.20 |
| | | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) | (ft-lbs) |
| 3 | 0.5 | 0.28 | 0.32 | 0.38 | 0.73 | 0.82 | 0.97 | 1.0 | 1.2 | 1.4 | 1.2 | 1.8 |
| 3.5 | 0.6 | 0.44 | 0.50 | 0.59 | 1.1 | 1.3 | 1.5 | 1.6 | 1.9 | 2.2 | 1.9 | 2.5 |
| 4 | 0.7 | 0.66 | 0.74 | 0.87 | 1.7 | 1.9 | 2.3 | 2.4 | 2.7 | 3.2 | 2.8 | 3.8 |
| 5 | 0.8 | 1.3 | 1.5 | 1.8 | 3.4 | 3.9 | 4.5 | 4.9 | 5.5 | 6.5 | 5.7 | 7.8 |
| 6 | 1 | 2.3 | 2.6 | 3.0 | 5.8 | 6.8 | 7.7 | 8.3 | 9.4 | 11 | 9.7 | 13 |
| 8 | 1.25 | 2.1 | 2.3 | 2.7 | 5.3 | 6.0 | 7.0 | 7.6 | 8.6 | 10 | 8.8 | 12 |
| 7 | 1 | 3.8 | 4.3 | 5.0 | 9.7 | 11 | 13 | 14 | 16 | 19 | 16 | 22 |
| 8 | 1 | 5.9 | 6.8 | 7.8 | 15 | 17 | 20 | 22 | 24 | 29 | 25 | 34 |
| 8 | 1.25 | 5.5 | 6.2 | 7.3 | 14 | 16 | 19 | 20 | 23 | 27 | 24 | 31 |
| 10 | 1.25 | 11 | 13 | 15 | 29 | 33 | 39 | 42 | 48 | 56 | 49 | 66 |
| 10 | 1.5 | 11 | 12 | 14 | 28 | 32 | 37 | 40 | 45 | 53 | 47 | 62 |
| 12 | 1.25 | 21 | 23 | 28 | 53 | 60 | 71 | 76 | 86 | 101 | 89 | 119 |
| 12 | 1.5 | 20 | 22 | 26 | 51 | 58 | 68 | 73 | 82 | 97 | 85 | 113 |
| 12 | 1.75 | 19 | 21 | 25 | 49 | 55 | 65 | 70 | 79 | 93 | 81 | 108 |
| 14 | 1.25 | 26 | 29 | 34 | 66 | 75 | 89 | 95 | 108 | 127 | 111 | 148 |
| 14 | 1.5 | 28 | 32 | 37 | 72 | 82 | 96 | 103 | 117 | 138 | 121 | 161 |
| 14 | 2 | 30 | 34 | 40 | 78 | 88 | 104 | 111 | 126 | 148 | 130 | 173 |
| 16 | 1.5 | 50 | 57 | 67 | 129 | 146 | 171 | 184 | 208 | 245 | 215 | 287 |
| 16 | 2 | 47 | 53 | 62 | 121 | 137 | 161 | 173 | 196 | 230 | 202 | 269 |
| 18 | 1.5 | 73 | 82 | 97 | 187 | 212 | 249 | 268 | 303 | 357 | 313 | 417 |
| 18 | 2.5 | 65 | 73 | 86 | 167 | 189 | 222 | 239 | 270 | 318 | 279 | 372 |
| 20 | 1.5 | 101 | 115 | 135 | 270 | 306 | 360 | 374 | 424 | 498 | 437 | 583 |
| 20 | 2.5 | 91 | 104 | 122 | 236 | 267 | 314 | 337 | 382 | 449 | 394 | 525 |

Clamp load calculated as 75% of the proof load for specified bolts. K = 0.15 for "lubricated" conditions D = Nominal Diameter
 All torque values are listed in foot-pounds K = 0.17 for zinc plated, dry conditions F = Clamp Load
 Torque values calculated from formula T=KDF, where K = 0.20 for plain and dry conditions

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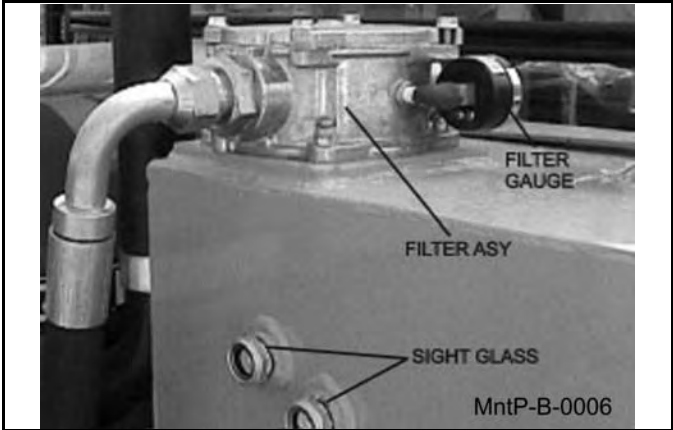
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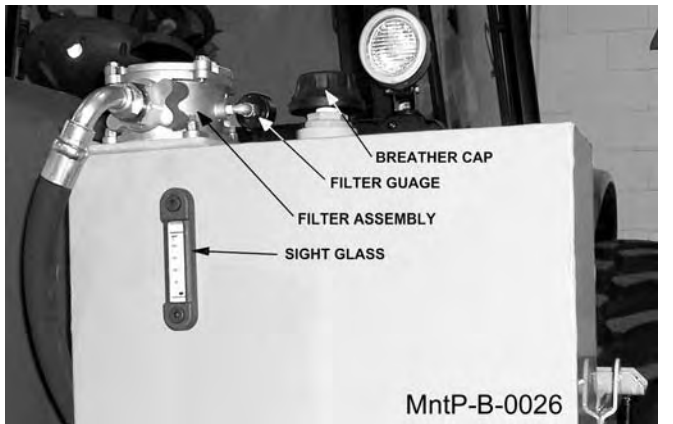
F97CAA9B898 : =@B; 'BGHFI 7HCBG: CF' <M8F5I @7' F9G9FJC=FG

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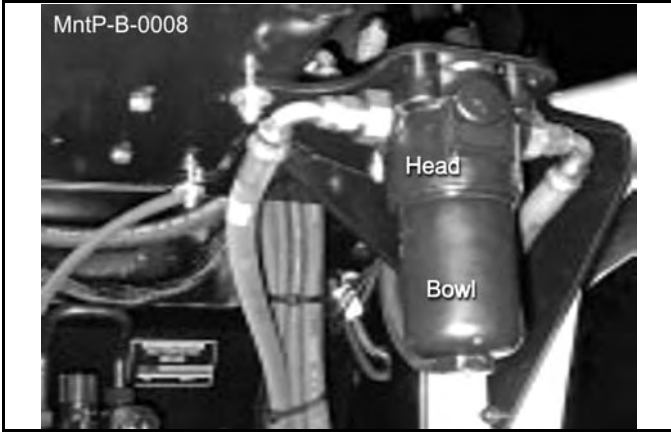
ÜÖÖÄÜVÖÜ

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F9D@7-B; <=> <'DF9GGI F9<M8F5I @7': =@9F'9 @A9BH

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 { [à^!Ác@e ÉÖc@e] \^ÁX^HÉ FÉÉ ÁÇ [!|áÁq ^ÁFÉÉÉ
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WARNING: Bowl will be full of oil!ÁÚ~!Ác@Á qÁ [{ Ác@Áà[, |Áq q Áæ&[} cæã^!ÉÖ@Á qÁ @~!áÁ^Áq } •æ^!^á
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 ^{\ ^} óq !|!^! ÉÜ^ [ç^Ác@Á^ , Á^{\ ^} óq [{ Ác@Áæã æ q *ÉV q *Á^!Áq *^!ÉææÁq áÁ à!ææ Ác@Á Éq *
 q Ác@Áq] Á Ác@Á^ Á^{\ ^} óq cæã Ác@Á^ , Á^{\ ^} óq q Áq àÁ} Ác@Á [~ } çq *Áà[••Á q æq Ác@Ác@æÉæ•!
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 , æóq qÉV q *Áæ&| & , á^Á [cæã] É~!Á^ , Ác@Áà[, |Áæã Áq q Ác@Ác@æÉæ•!q * Ác@eÁc@Áà[, |Ác@e Á [óh^^
 &[••Ác@e^!áÁq q Ác@Ác@æÉÖ[] } çq ~^Áq Ác@e @^ Ác@Áà[, |Áq q Ác@Ác@æÉæ• q *Ác@Áq } ð }^!Á !^} &É!É
 !æ&@çc@Á [cæã] Á Ác@Áà[, |Á q!Á^& [^Áç @!Á } &Ác@Á Éq *Á } *æ^•Ác@Á^æq *Áæ ÉU } &Ác@Áà[, |
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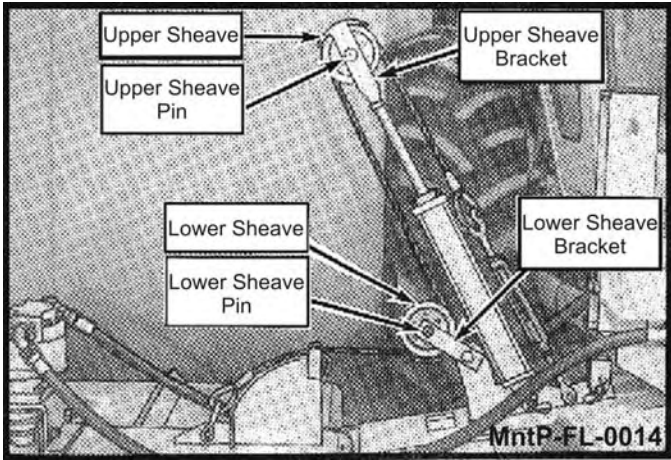
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A5-BH9 B5 B7 9

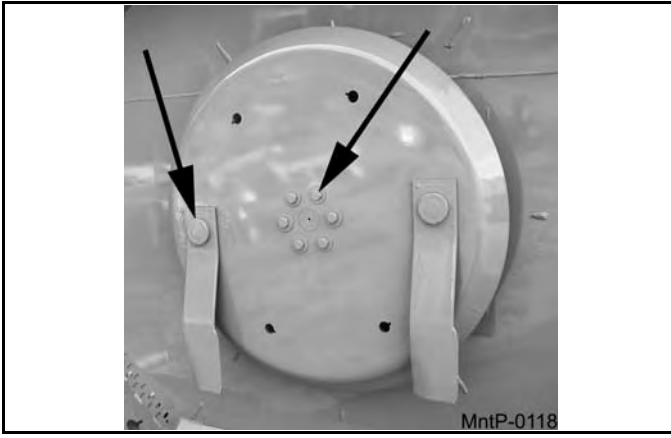
; F95 G-B; 'H<9 'I DD9F '5 B8 'C@K 9F 'G<95J9G

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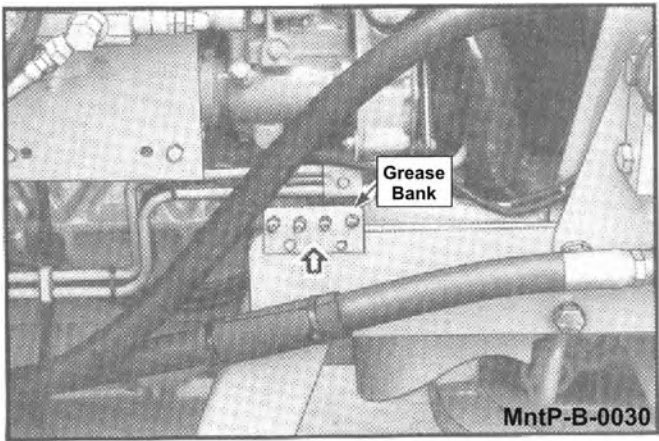
ÙÖÖÀÛUVOÛÿ

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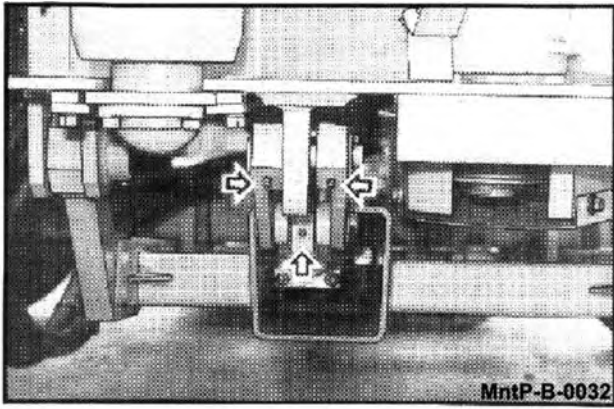
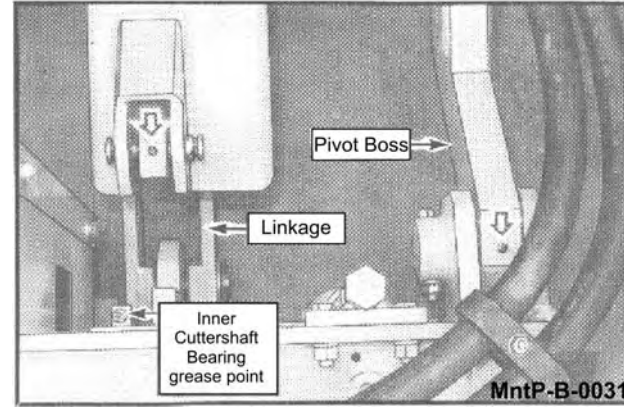
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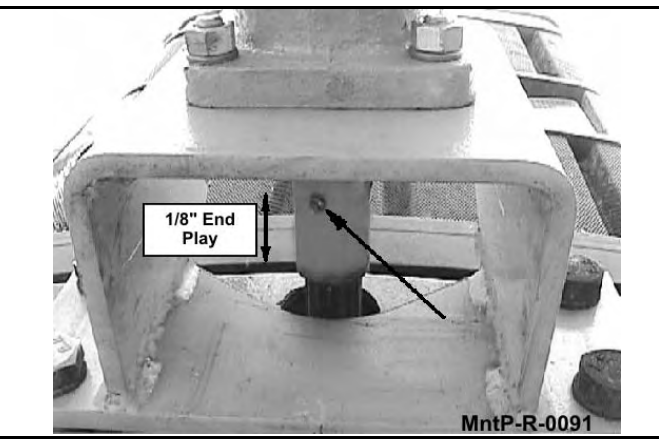
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; F95GB; 'DI AD'8F=J9'G<5: H'7CI D@F

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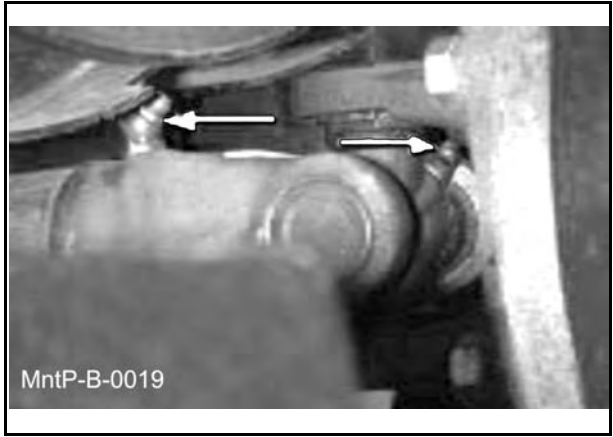
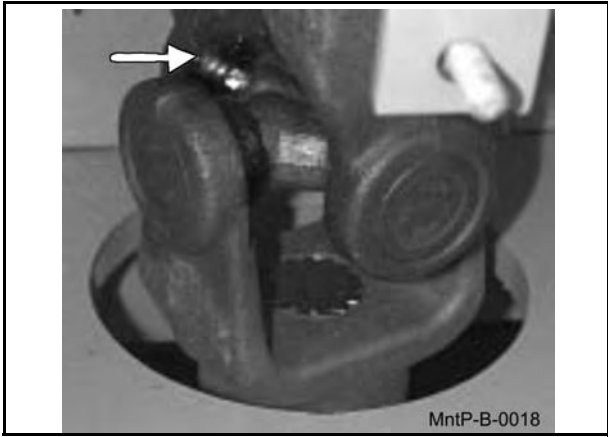
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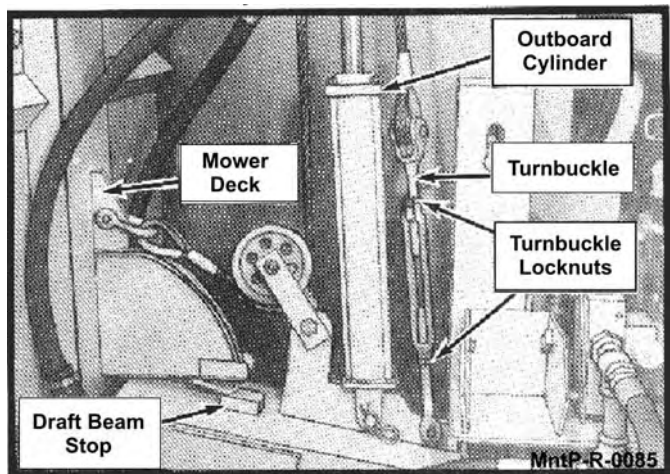


58>I GHB;`H<9`756 @`@` H

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NOTE: Make sure the cable turnbuckle is loose enough to allow the cylinder to reach full extension before the head reaches the stop.

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 a e | Á a a b • d ^ } o^A | {] |^c E



ÜÖÖÄÜUVÖÜ

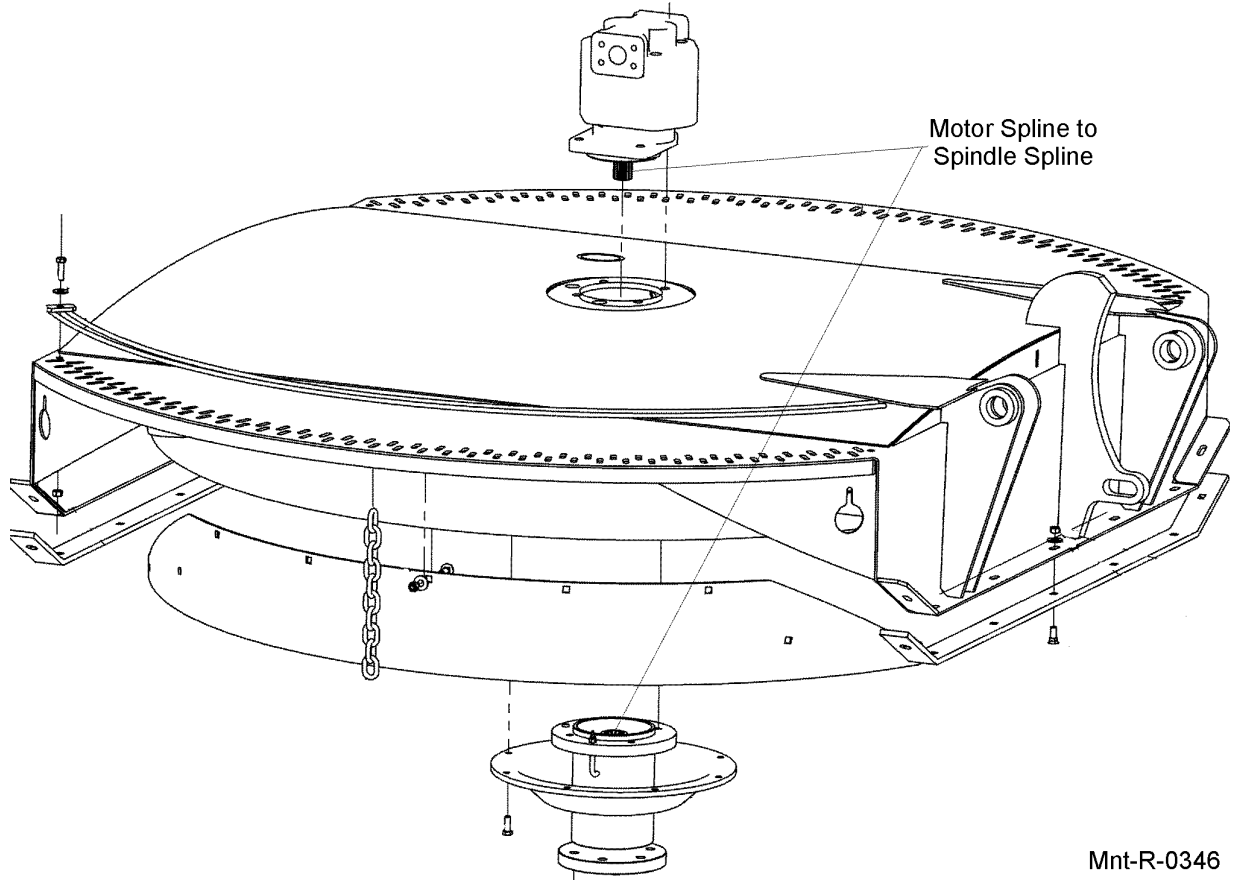
T a a c } a a ^ A ^ & a } Á E i

A5-BH9 B5 B7 9

A5-BH9 B5 B7 9

; F95 G-B; A CHCF GD@B9 HC GD-B8 @ GD@B9

Q | Áã^&óáíã^Á [, ^i•Éñ &æ^Á [d!Á] |ã^Áã] áá!^Á] |ã^Á} Á@Á [, ^!Á^&ÉÖ!^æ^Á] |ã^Á} á@ [áã { [| Á GAV^Áã [~ ó Á } &^Á Á!^æ^É@ @ *^Á!^æ^Á^æ | Á!Áç!^Á €€@ ;i•É



Mnt-R-0346

ÙÖÖÁÛVÖÛÿ

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<95JM8I HMGD-B8 @ '5 GG9A6 @M-BGH5 @@HCB'5 B8 '695 F-B; ' 58>I GHA9BH



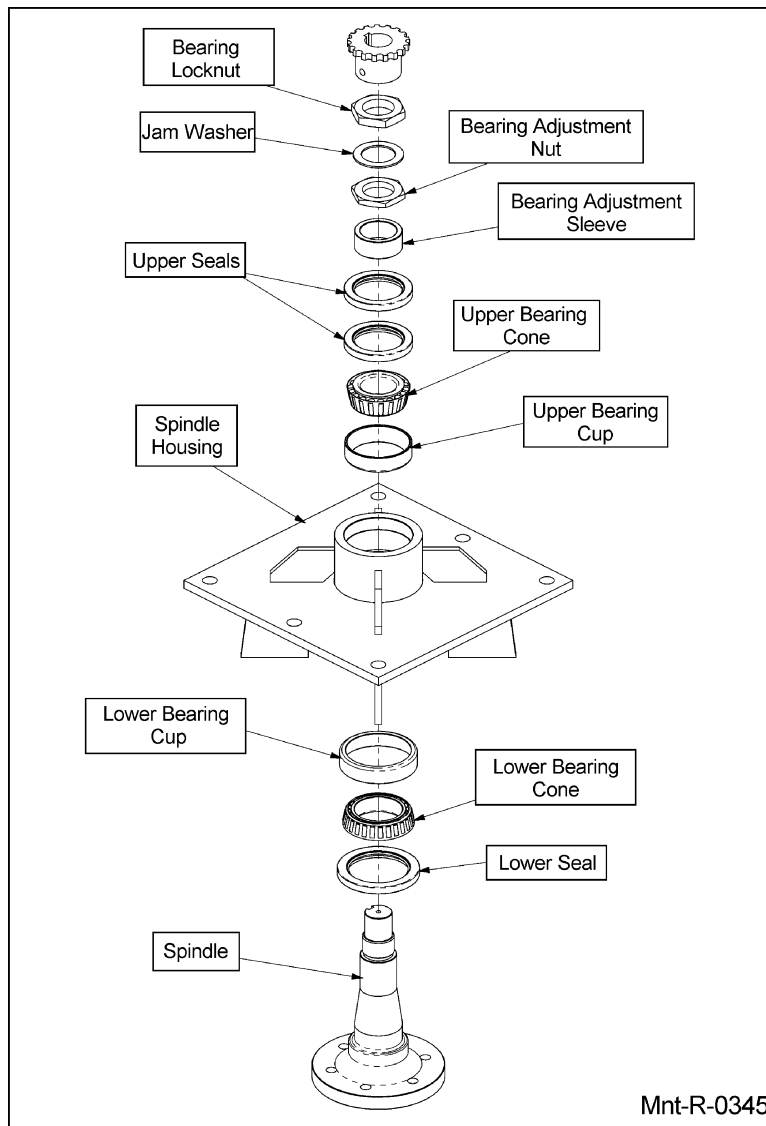
CAUTION: The grease zerk and gussets are located on the top side of the spindle housing. Be sure the spindle is assembled correctly.

NOTE: The grease zerk and gussets are located on the top side of the spindle housing. Be sure the spindle is assembled correctly.

6 Y gi fY'lc'k YUf'Ym' dfchWj'cb'UbX' ch Yf' dfchWj'j Y'Yei]da Ybh Ug'bYYXY'k \ Yb'k cf_]b['cb'gd]bX'Y UggYa V'mf

H<9'GD-B8 @ '5 GG9A6 @M

Ü^A@Aa|a A^|, A|A^} a@a } A-A] a^A a o E @^A^ca * E



A5-BH9B5 B7 9

A5-BH9B5 B7 9

85 - QMA5-BH9B5 B7 9`G7 < 98I @

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~~~~~ Ó|æ\·@æÁæçç¹ÁÁ~ }] ^áÁ æçÁ ^áÁÁ[ { { ^Á&@&Á] ááæ } Á] |æÁÁ á·ã \*Á]Á áæ æ^áÈ

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~~~~~ P^á|æ|æÁ-ã \*·Á@& Á-|Á|æ·Á, æçÁ æ¹|Á|Á&ááà[ æáÁVá @} Á-ã \*·Á|Á|] |æÁ@·^ ç { ^áæ

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~~~~~ T æÁ çÁæ ^Á·Á·ÁV|·^·Á çÁ, áÁ] ^áááÁÁ^¹ ~^Á[ |ç·Á&ç| áá \*Á] Á]¹ ~^Á] ^ááææ}·Á çÁÁ&ç} È

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ÜÖÖÜUVOÜÿ

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A5 -BH9 B5 B7 9

ÙÖÒÄÛUVOËÿ

T æ ç } æ & ^ Á ^ & ç } Á Ë

PARTS SECTION

PART NAME INDEX

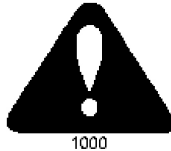
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|--|----|
| RCTVUQTFGT&I 'I W&F G | 5 |
| VTCEVQT'O QWP V'MKV"/'HTQP V'RWO R | 6 |
| VTCEVQT'O QWP V'MKV"/'J [FTCWN&EU"/'HTQP V'RWO R | 8 |
| VTCEVQT'O QWP V'MKV"/'TGCT'RWO R | : |
| VTCEVQT'O QWP V'MKV"/'J [FTCWN&EU"/'TGCT'RWO R | 32 |
| DCVVGIT ['TGNQECVQIP | 34 |
| 4"URQQN'ECDNG'EQP VTQN'UVCP F | 36 |
| ECDNG*O CP WCN+'N&HV'XCNXG"/'4"URQQN'ECDNG | 38 |
| ECDNG*O CP WCN+'N&HV'XCNXG"/'4"URQQN'E QO DQ | 3: |
| ECDNG*O CP WCN+'N&HV'XCNXG'DTGCMF QY P "/'46722 | 42 |
| ECDNG*O CP WCN+'N&HV'XCNXG'DTGCMF QY P "/'2872427: | 44 |
| TGCT'J [FTCWN&E'RWO R'DTGCMF QY P | 46 |
| Y J GGN'URCEGT | 48 |

PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this manual.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
2. The Purchase Order must indicate the **Name and Address** of the person or organization ordering the parts, **who should be charged**, and if possible, the **serial number of the machine** for which the parts are being ordered.
3. The purchase order must clearly list the **quantity of each part**, the complete and correct **part number**, and the basic **name of the part**.
4. The manufacturer reserves the right to substitute parts where applicable.
5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
6. The manufacturer reserves the right to change prices without prior notice.

NOTE: When ordering replacement decals, refer to the part numbers and descriptions listed in the safety section in the front of this manual.

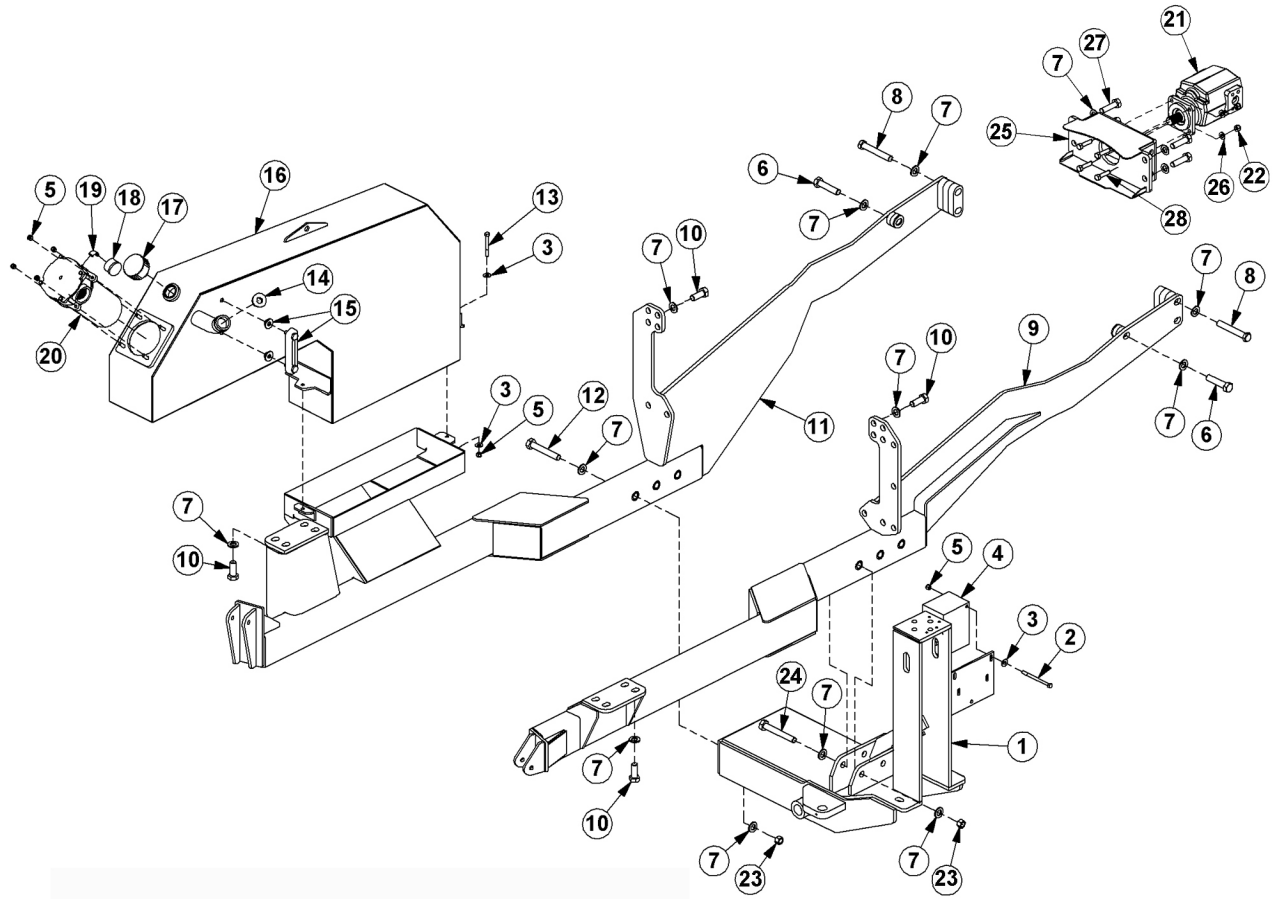


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

Tiger Corporation
3301 N. Louise Ave.
Sioux Falls, SD 57107
1-800-843-6849
1-605-336-7900

TRACTOR MOUNT KIT - FRONT PUMP

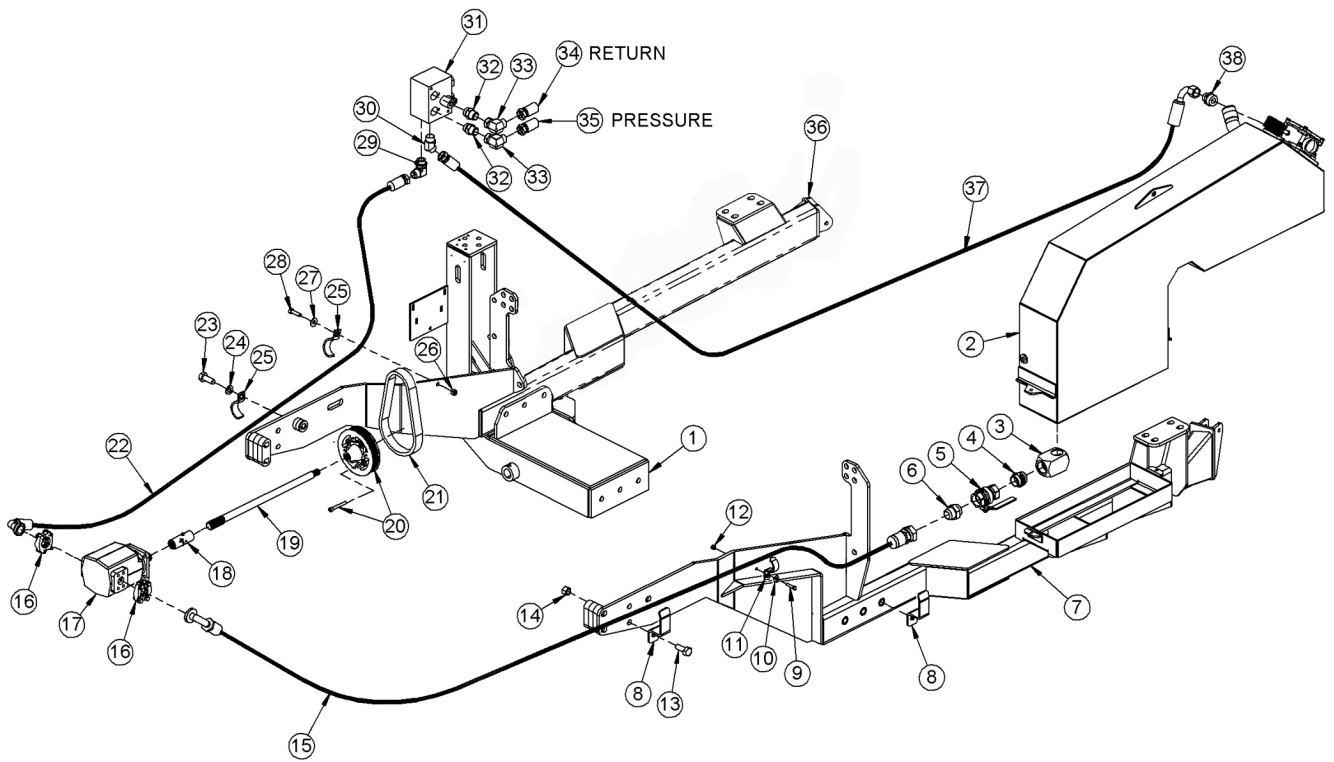


TRACTOR MOUNT KIT - FRONT PUMP

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------|
| 1 | 06300236 | 1 | MAIN FRAME,JD6XXXD |
| 2 | 21644 | 2 | CAPSCREW,3/8" X 5",NC |
| 3 | 22016 | 6 | FLATWASHER,3/8" |
| 4 | 06510083 | 1 | VALVE,BRAKE |
| 5 | 21627 | 8 | NYLOCK NUT,3/8",NC |
| 6 | 30708 | 2 | CAPSCREW,20MM X 90MM,2.5P |
| 7 | 33880 | 38 | FLATWASHER,3/4" |
| 8 | 06530542 | 4 | CAPSCREW,20MM X 130MM,2.5P |
| 9 | 06300234 | 1 | AXLE BRACE,RIGHT |
| 10 | 31731 | 20 | CAPSCREW,20MM X 50MM,2.5P |
| 11 | 06300235 | 1 | AXLE BRACE,LEFT |
| 12 | 21842 | 3 | CAPSCREW,3/4" X 5",NC |
| 13 | 21639 | 2 | CAPSCREW,3/8" X 3-1/4",NC |
| 14 | 06505127 | 1 | PLUG,#20 SAE |
| 15 | 06505067 | 1 | SIGHT GLASS |
| --- | 06503175 | 1 | KIT,SEAL,SIGHT GLASS |
| 16 | 06700091 | 1 | TANK,WHEEL WELL |
| 17 | 06505077 | 1 | CAP,BREATHER |
| 18 | 6T0649 | 1 | FILTER GAGE |
| 19 | TF4888 | 1 | STREET ELBOW,1/8" |
| 20 | 06505044 | 1 | ASSY,FILTER,IN-TANK |
| 21 | 23152 | 1 | PUMP |
| 22 | 21727 | 4 | NYLOCK NUT,1/2",NC |
| 23 | 21825 | 6 | HEX NUT,3/4",NC |
| 24 | 6T2309 | 3 | CAPSCREW,3/4" X 5-1/2",NC |
| 25 | 06380061 | 1 | MOUNT,PUMP |
| 26 | 06533004 | 4 | FLATWASHER,1/2",SAE |
| 27 | 25341 | 4 | CAPSCREW,16MM X 70MM |
| 28 | 21733 | 4 | CAPSCREW,1/2" X 2",NC |

TRACTOR MOUNT KIT - HYDRAULICS - FRONT PUMP

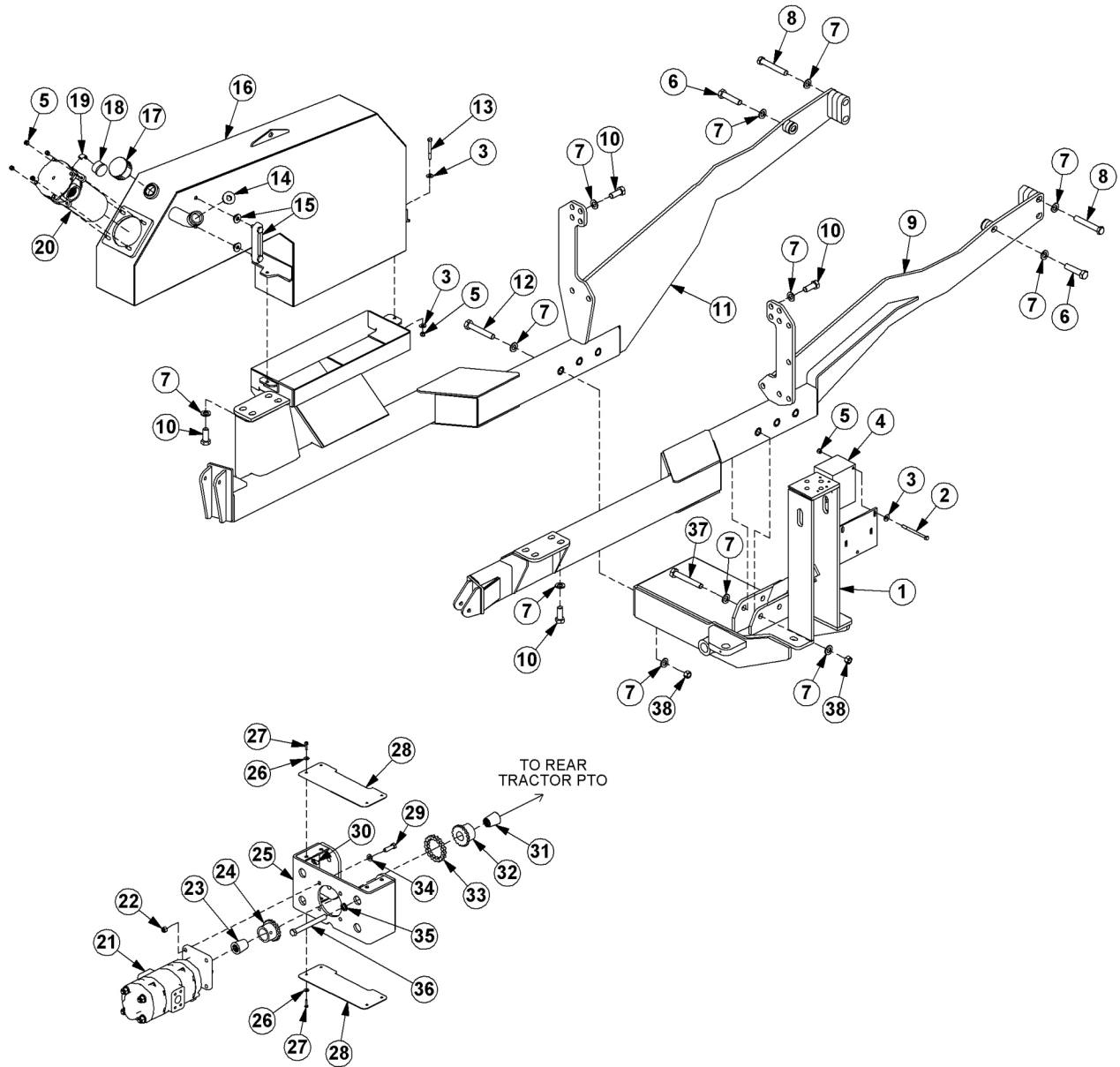


TRACTOR MOUNT KIT - HYDRAULICS - FRONT PUMP

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | --- | 1 | MAIN FRAME * REFER TO TRACTOR MOUNT KIT |
| 2 | 06700091 | 1 | TANK, HYDRAULIC, WHEEL WELL |
| 3 | 06503084 | 1 | ELBOW, 1-1/2" FOR X 1-1/2" FOR |
| 4 | 06503083 | 1 | ADAPTER, 1-1/2" MOR X 1-1/2" MOR |
| 5 | 34309 | 1 | BALL VALVE, 1-1/2" FOR |
| 6 | 34710 | 1 | ADAPTER, 1-1/2" MOR X 1-1/2" MJ |
| 7 | ---- | 1 | AXLE BRACE, LH * REFER TO TRACTOR MOUNT KIT |
| 8 | 32382 | 2 | BRACKET, HOSE |
| 9 | 21632 | 1 | CAPSCREW, 3/8" X 1-1/2", NC |
| 10 | 22016 | 1 | FLATWASHER, 3/8" |
| 11 | 06411136 | 1 | BRACKET, HOSE |
| 12 | 21627 | 1 | NYLOCK NUT, 3/8", NC |
| 13 | 21832 | 1 | CAPSCREW, 3/4" X 2", NC |
| 14 | 21827 | 1 | NYLOCK NUT, 3/4", NC |
| 15 | 06500680 | 1 | HOSE, 1-1/2" X 107" |
| 16 | TF4852 | 2 | KIT, FLANGE, #20 |
| 17 | 23152 | 1 | PUMP |
| 18 | 6T0375B | 1 | COUPLING |
| 19 | 06420166 | 1 | DRIVE SHAFT |
| 20 | DLV32899 | 1 | JOHN DEERE PULLEY KIT |
| 21 | T208891 | 1 | JOHN DEERE BELT |
| 22 | 06500274 | 1 | HOSE, 1" X 74" |
| 23 | 30708 | 1 | CAPSCREW, 20MM X 90MM, 2.5P |
| 24 | 33880 | 1 | FLATWASHER, 3/4" |
| 25 | TB3012 | 2 | CLAMP, HOSE |
| 26 | 21727 | 1 | NYLOCK NUT, 1/2", NC |
| 27 | 22018 | 1 | FLATWASHER, 1/2" |
| 28 | 21732 | 1 | CAPSCREW, 1/2" X 1-3/4" |
| 29 | 34117 | 1 | ELBOW, 1" MOR X 1" MJ |
| 30 | 33554 | 1 | ELBOW, 1" MOR X 1" MJ, 45° |
| 31 | 06510083 | 1 | BRAKE VALVE |
| 32 | 33555 | 2 | ADAPTER, 1" MOR X 1" MJ |
| 33 | 33259 | 2 | ELBOW, 1" MOR X 1" FJX90 |
| 34 | 06500683 | 1 | HOSE, 1" X 96" (RETURN) |
| 35 | 06500684 | 1 | HOSE, 1" X 93 (PRESSURE) |
| 36 | --- | 1 | AXLE BRACE, RH * REFER TO TRACTOR MOUNT KIT |
| 37 | 06500747 | 1 | HOSE, 1" X 115" |
| 38 | 34064 | 1 | ADAPTER, 1-1/4" MOR X 1" MJ |

TRACTOR MOUNT KIT - REAR PUMP



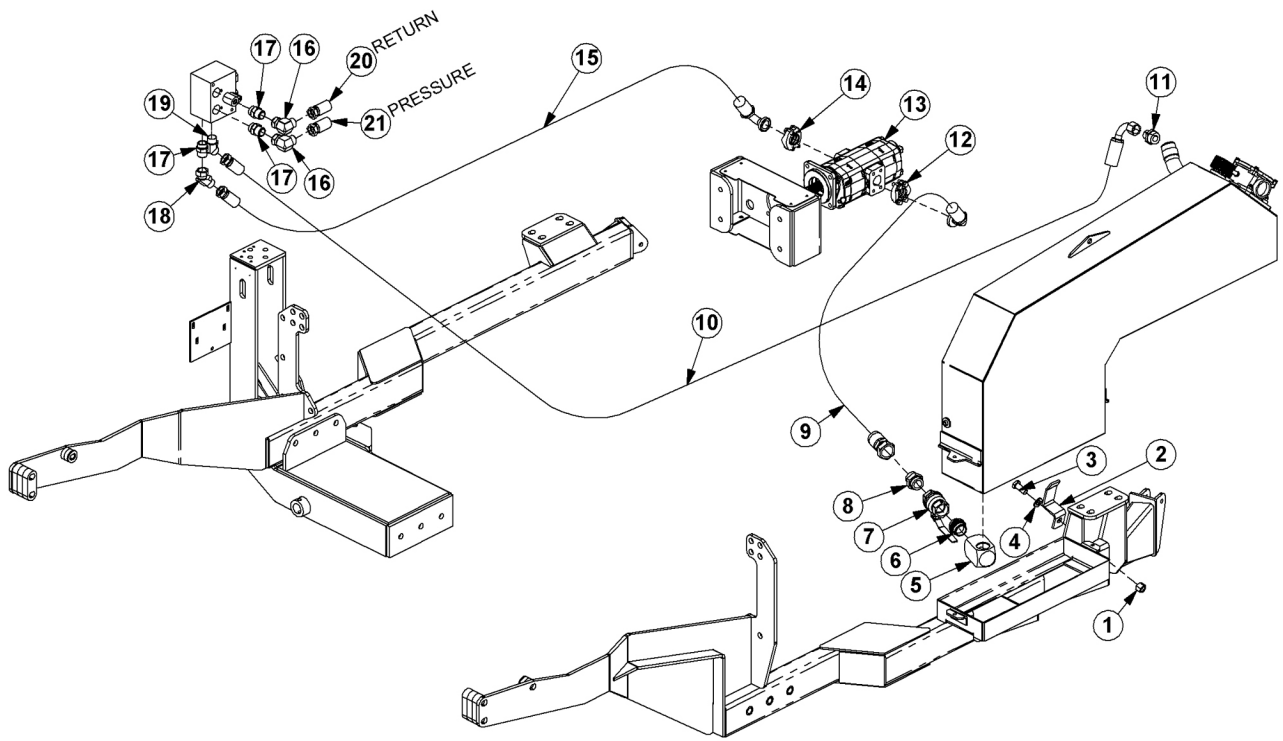
TRACTOR MOUNT KIT - REAR PUMP

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 06300236 | 1 | MAIN FRAME,JD6XXXX |
| 2 | 21644 | 2 | CAPSCREW,3/8" X 5",NC |
| 3 | 22016 | 6 | FLATWASHER,3/8" |
| 4 | 06510083 | 1 | VALVE,BRAKE |
| 5 | 21627 | 8 | NYLOCK NUT,3/8",NC |
| 6 | 30708 | 2 | CAPSCREW,20MM X 90MM,2.5P |
| 7 | 33880 | 38 | FLATWASHER,3/4" |
| 8 | 06530542 | 4 | CAPSCREW,20MM X 130MM,2.5P |
| 9 | 06300234 | 1 | AXLE BRACE,RIGHT |
| 10 | 31731 | 20 | CAPSCREW,20MM X 50MM,2.5P |
| 11 | 06300235 | 1 | AXLE BRACE,LEFT |
| 12 | 21842 | 3 | CAPSCREW,3/4" X 5",NC |
| 13 | 21639 | 2 | CAPSCREW,3/8" X 3-1/4",NC |
| 14 | 06505127 | 1 | PLUG,#20 SAE |
| 15 | 06505067 | 1 | SIGHT GLASS |
| --- | 06503175 | 1 | KIT,SEAL,SIGHT GLASS (LENZ) |
| 16 | 06700091 | 1 | TANK,WHEEL WELL |
| 17 | 06505077 | 1 | CAP,BREATHER |
| 18 | 6T0649 | 1 | FILTER GAGE |
| 19 | TF4888 | 1 | STREET ELBOW,1/8" |
| 20 | 06505044 | 1 | ASSY,FILTER,IN-TANK |
| 21 | 06504131 | 1 | PUMP,TANDEM |
| 22 | 21725 | 4 | HEX NUT,1/2",NC |
| 23 | 6T0372 | 1 | BUSHING,14 SPLINE |
| 24 | 6T0373 | 1 | SPROCKET,PUMP |
| 25 | 06380058 | 1 | MOUNT,PUMP |
| 26 | 22014 | 8 | FLATWASHER,1/4" |
| 27 | 21530 | 8 | CAPSCREW,1/4" X 1",NC |
| 28 | 06401703 | 2 | COVER,PUMP MOUNT |
| 29 | 21732 | 4 | CAPSCREW,1/2" X 1-3/4",NC |
| 30 | 35176 | 8 | U-NUT,1/4" |
| 31 | 6T0370 | 1 | BUSHING,21 SPLINE |
| 32 | 6T0371 | 1 | SPROCKET,PTO |
| 33 | 6T1037 | 1 | CHAIN,COUPLING |
| 34 | 06533004 | 4 | FLATWASHER,1/2",SAE |
| 35 | 31956 | 4 | FLATWASHER,16MM |
| 36 | 06530543 | 4 | CAPSCREW,16MM X 170MM,2.0P |
| 37 | 6T2309 | 3 | CAPSCREW,3/4" X 5-1/2",NC |
| 38 | 21825 | 6 | HEX NUT,3/4",NC |

JD6xxxD TM/TSR

TRACTOR MOUNT KIT - HYDRAULICS - REAR PUMP

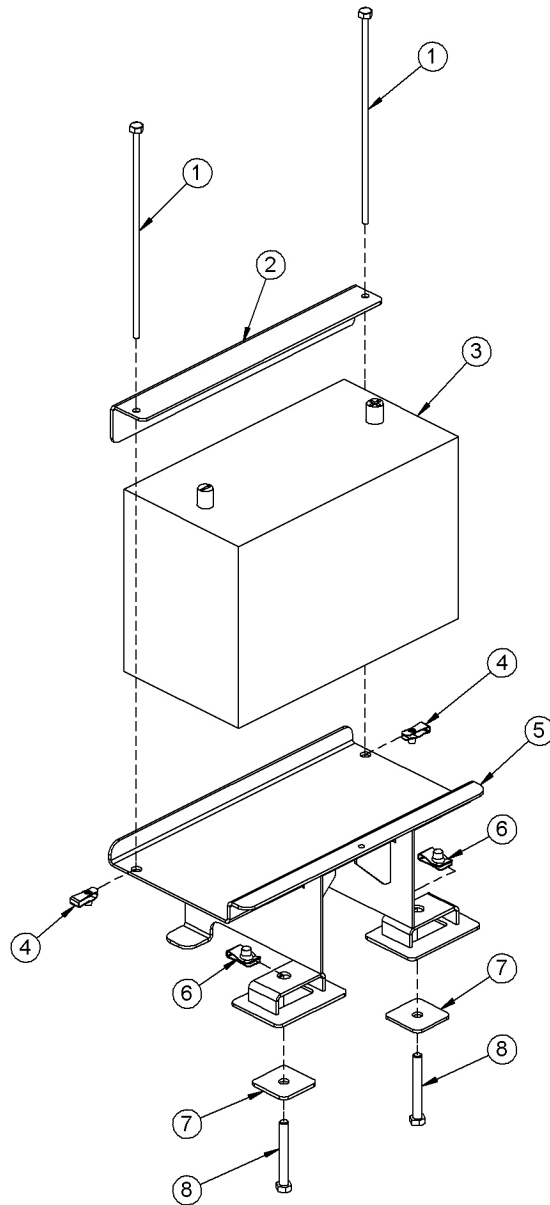


TRACTOR MOUNT KIT - HYDRAULICS - REAR PUMP

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------------|
| 1 | 21827 | 1 | NYLOCK NUT,3/4",NC |
| 2 | 32382 | 1 | BRACKET,HOSE |
| 3 | 21831 | 1 | CAPSCREW,3/4" X 1-3/4",NC |
| 4 | 33880 | 1 | FLATWASHER,3/4",SAE |
| 5 | 06503084 | 1 | ELBOW,1-1/2"FOR X 1-1/2"FOR,MACH |
| 6 | 06503083 | 1 | ADAPTER,1-1/2"MOR X 1-1/2"MOR |
| 7 | 34309 | 1 | BALL VALVE,1-1/2"FOR |
| 8 | 34710 | 1 | ADAPTER,1-1/2"MOR X 1-1/2"MJ |
| 9 | 06500674 | 1 | HOSE,1-1/2" X 80" |
| 10 | 06500239 | 1 | HOSE,1" X 124" |
| 11 | 34064 | 1 | ADAPTER,1-1/4"MOR X 1"MJ |
| 12 | TF4854 | 1 | KIT,FLANGE,#24 |
| 13 | ----- | - | PUMP *REFER TO TRACTOR MOUNT KIT |
| 14 | TF4852 | 1 | KIT,FLANGE,#20 |
| 15 | 06500673 | 1 | HOSE,1" X 117" |
| 16 | 33259 | 2 | ELBOW,1"MJ X 1"FJX90° |
| 17 | 33555 | 3 | ADAPTER,1"MOR X 1"MJ |
| 18 | 24724 | 1 | SWIVEL,1"MJ X 1"FJX45° |
| 19 | 33554 | 1 | ELBOW,1"MOR X 1"MJ45° |
| 20 | 06500458 | 1 | HOSE,1" X 95" (60" TSR RETURN) |
| 21 | 06500431 | 1 | HOSE,1" X 99" (60" TSR PRESSURE) |

BATTERY RELOCATION

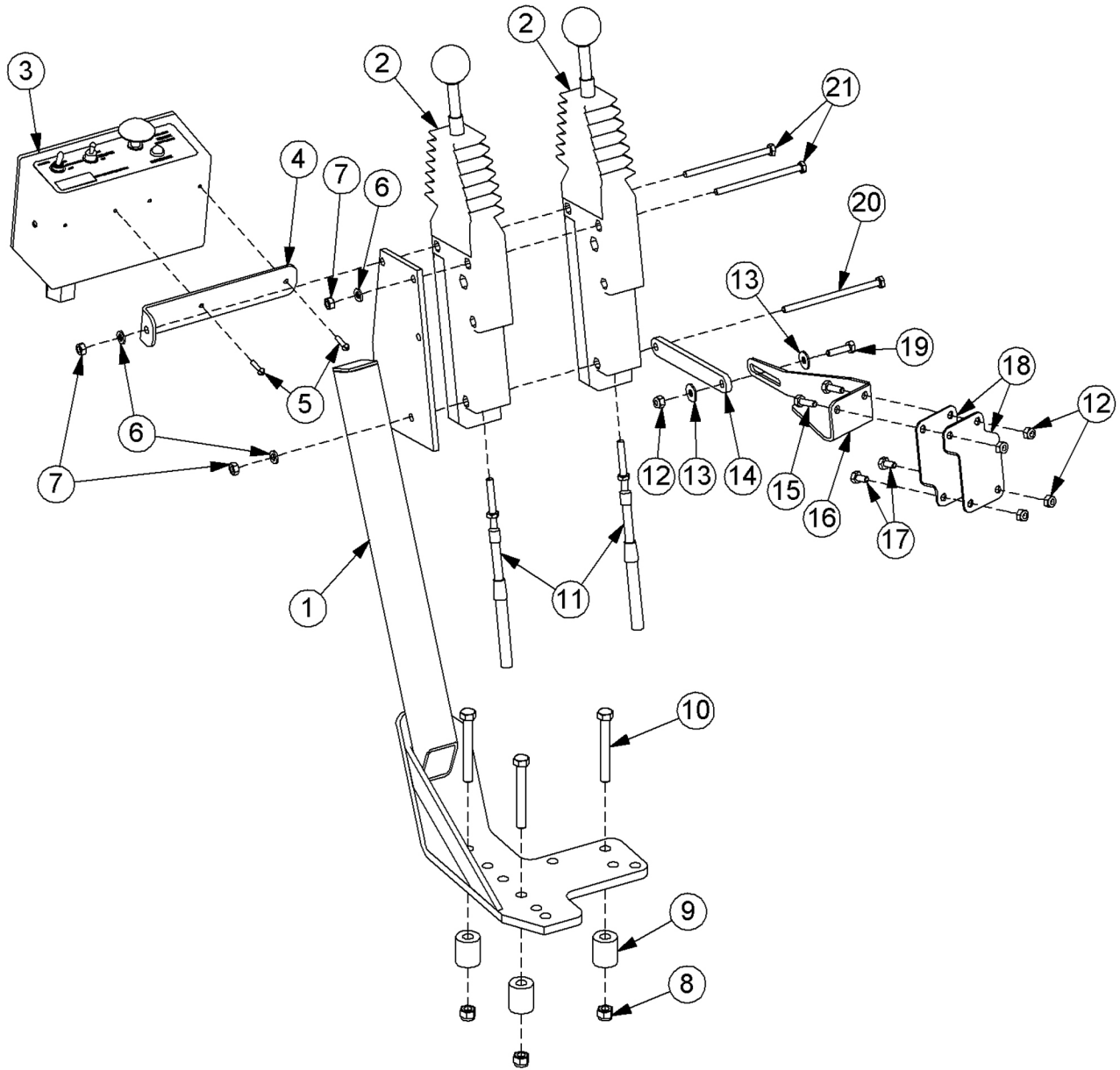


BATTERY RELOCATION

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------|
| 1 | 06530234 | 2 | CAPSCREW,1/4" X 10",NC |
| 2 | 06411429 | 1 | ANGLE |
| 3 | ----- | - | BATTERY *EXISTING PART |
| 4 | 35176 | 2 | NUT CLIP,1/4",NC |
| 5 | 06370231 | 1 | RELOCATION BRACKET |
| 6 | 06537029 | 2 | NUT CLIP,3/8",NC |
| 7 | 06401784 | 2 | SQUARE PLATE |
| 8 | 21638 | 2 | CAPSCREW,3/8" X 3",NC |

2 SPOOL CABLE CONTROL STAND

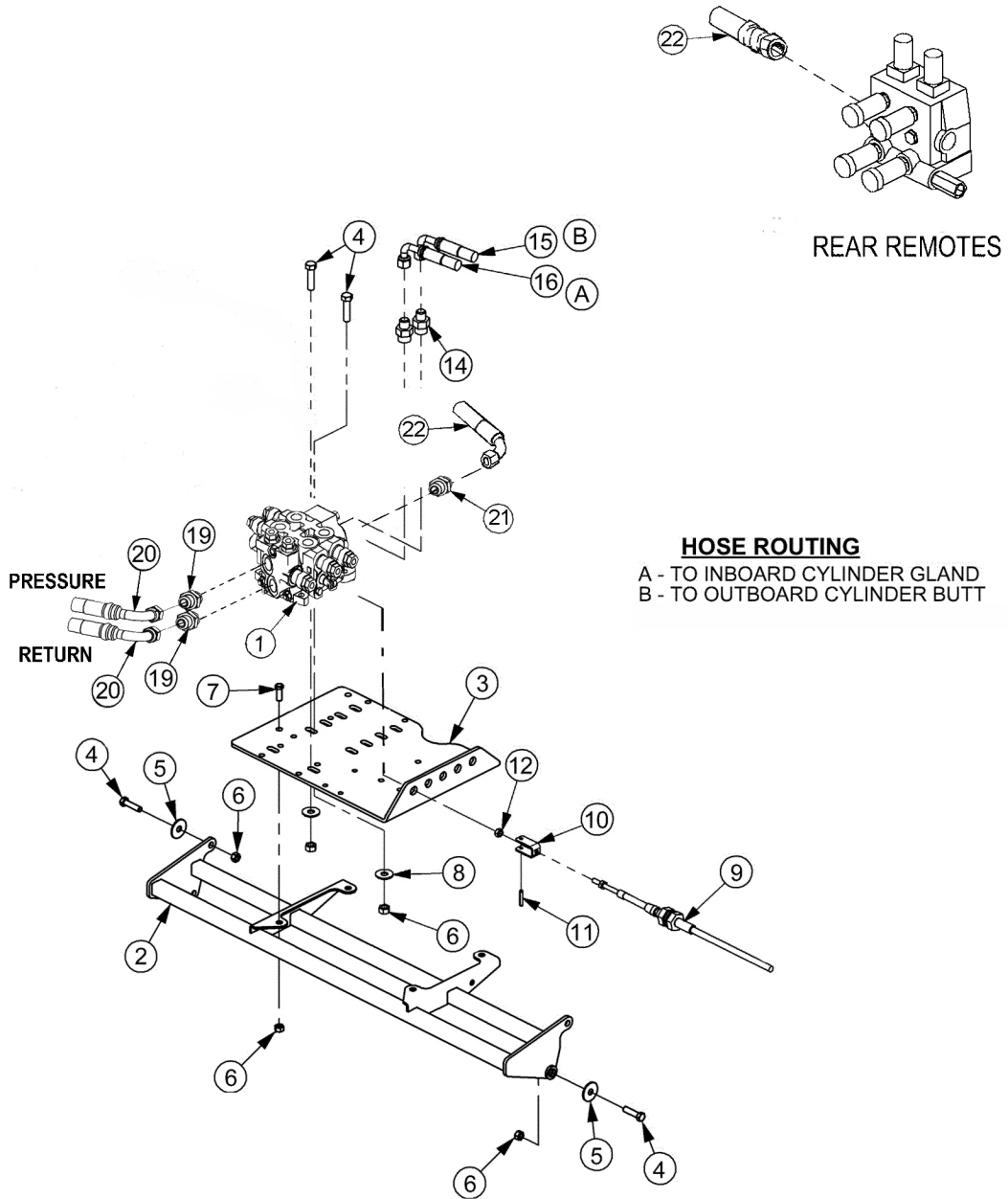


2 SPOOL CABLE CONTROL STAND

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 23865B | 1 | BRKT,CTRL,CBL |
| 2 | 6T1251 | 2 | CBL CTRL BOX,180 DEG |
| 3 | 06510102 | 1 | SWITCH BOX,SIDE |
| 4 | 34496 | 1 | BRKT,SWITCH BOX |
| 5 | 6T3951 | 2 | SCREW,MACHINE,8-32 X 1/2" |
| 6 | 21986 | 3 | LOCKWASHER,1/4" |
| 7 | 21525 | 3 | HEX NUT,1/4",NC |
| 8 | 21627 | 3 | NYLOCK NUT,3/8",NC |
| 9 | 27082B | 3 | SPACER |
| 10 | 21636 | 3 | CAPSCREW,3/8" X 2-1/2",NC |
| 11 | 06505100 | 2 | CBL,CNTRL,108" |
| 12 | 21527 | 5 | NYLOCK NUT,1/4",NC |
| 13 | 22014 | 2 | FLATWASHER,1/4" |
| 14 | 06402045 | 1 | SUPPORT,STAND |
| 15 | 21529 | 2 | CAPSCREW,1/4" X 3/4",NC |
| 16 | 06411087 | 1 | BRKT,STABILIZER |
| 17 | 21528 | 2 | CAPSCREW,1/4" X 1/2",NC |
| 18 | 06411086 | 2 | BRKT,MNT |
| 19 | 21530 | 1 | CAPSCREW,1/4" X 1",NC |
| 20 | 21544 | 1 | CAPSCREW,1/4" X 4-1/2",NC |
| 21 | 21542 | 2 | CAPSCREW,1/4" X 4",NC |

CABLE (MANUAL) LIFT VALVE - 2 SPOOL CABLE

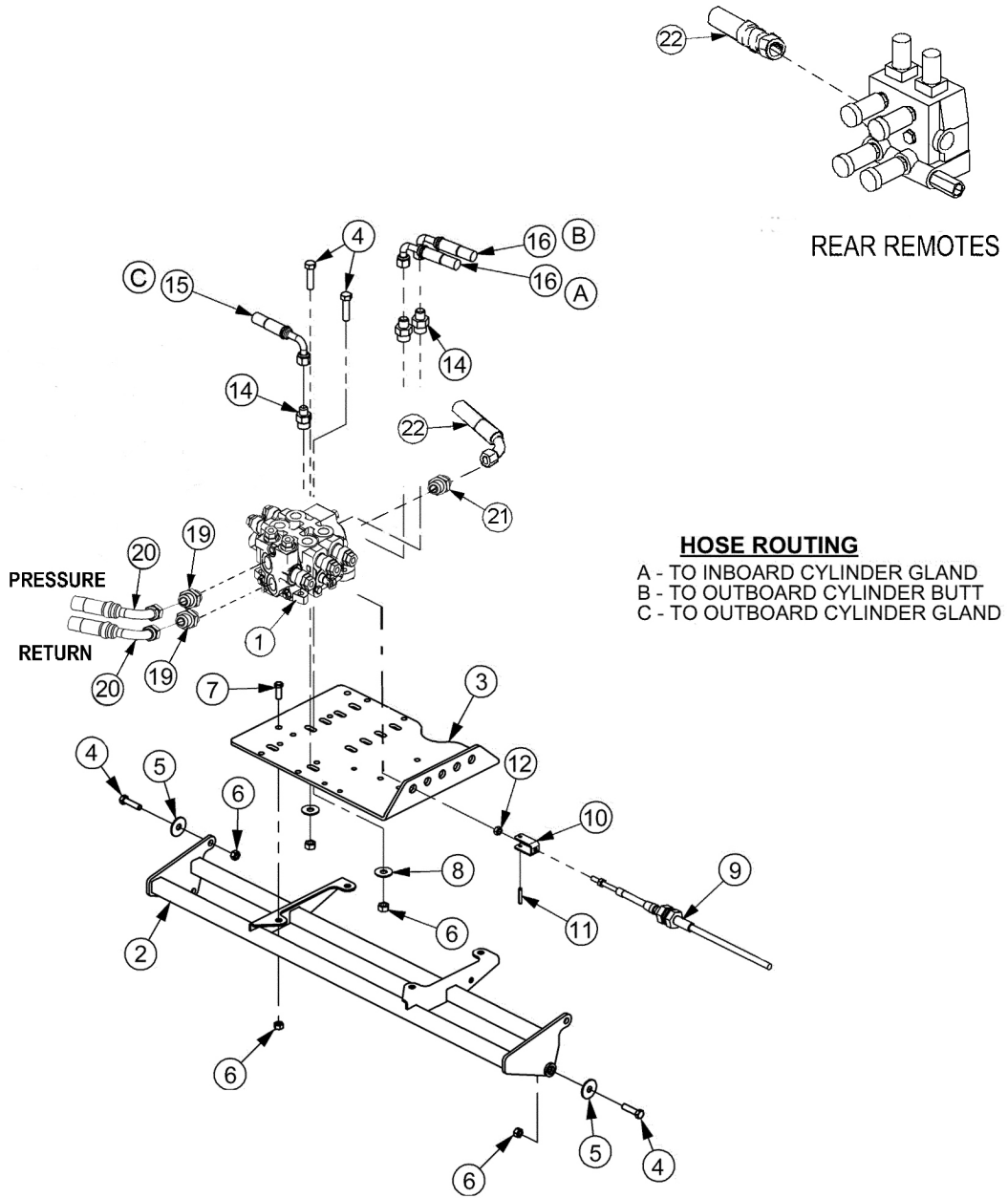


CABLE (MANUAL) LIFT VALVE - 2 SPOOL CABLE

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 24500 | 1 | VALVE,2SP,OC (CABLE LIFT DRAFT BEAM) |
| 2 | 06340033 | 1 | VALVE MNT |
| 3 | 34622 | 1 | PLATE,VALVE,REAR MNT |
| 4 | 21632 | 6 | CAPSCREW,3/8" X 1-1/2",NC |
| 5 | 6T2615 | 4 | WASHER,FENDER,3/8" |
| 6 | 21627 | 10 | NYLOCK NUT,3/8",NC |
| 7 | 21630 | 4 | CAPSCREW,3/8" X 1",NC |
| 8 | 22016 | 4 | FLATWASHER,3/8" |
| 9 | 06505100 | 2 | CBL,CNTRL,108" |
| 10 | 6T4411 | 2 | CLEVIS,CBL CTRL,3/16" |
| 11 | 6T3017 | 2 | ROLLPIN,3/16" X 1" |
| 12 | 21500 | 4 | HEX NUT,1/4",NF |
| 14 | 33271 | 2 | ADAPTER,1/2"MOR X 3/8"MJ |
| 15 | 33562 | 1 | HOSE,1/4" X 130" |
| 16 | 33364 | 1 | HOSE,1/4" X 120" |
| 17 | 33293 | 1 | ELBOW,LONG,1/2"MOR X 1/2"MJ 90 |
| 18 | 32678 | 1 | ADAPTER,5/8"MOR X 1/2"FOR |
| 19 | 33383 | 1 | ELBOW,5/8"MOR X 1/2"MJ X 90 |
| 20 | 06500467 | 1 | HOSE,1/2" X 31" |
| 21 | 06500468 | 1 | HOSE,1/2" X 33" |
| 22 | 06503130 | 1 | TEE,BRANCH |
| 23 | 06500533 | 1 | HOSE,3/4" X 37" *REPLACES TRACTOR HARD-LINE |
| 24 | ----- | 1 | ELBOW * EXISTING TRACTOR PART |
| 25 | RE267820 | 1 | ADAPTER,PB |
| 26 | 21529 | 2 | CAPSCREW,1/4" X 3/4",NC |
| 27 | 22014 | 2 | FLATWASHER,1/4" |
| 28 | 6T3927 | 1 | SOLENOID,CONTINUOUS DUTY |
| 29 | 06411085 | 1 | BRKT,MNT,SOLENOID |
| 30 | 21527 | 2 | NYLOCK NUT,1/4",NC |
| 31 | 32724 | 2 | FLATWASHER,10MM |
| 32 | 27513 | 2 | CAPSCREW,10MM X 35MM,1.5P |

CABLE (MANUAL) LIFT VALVE - 2 SPOOL COMBO

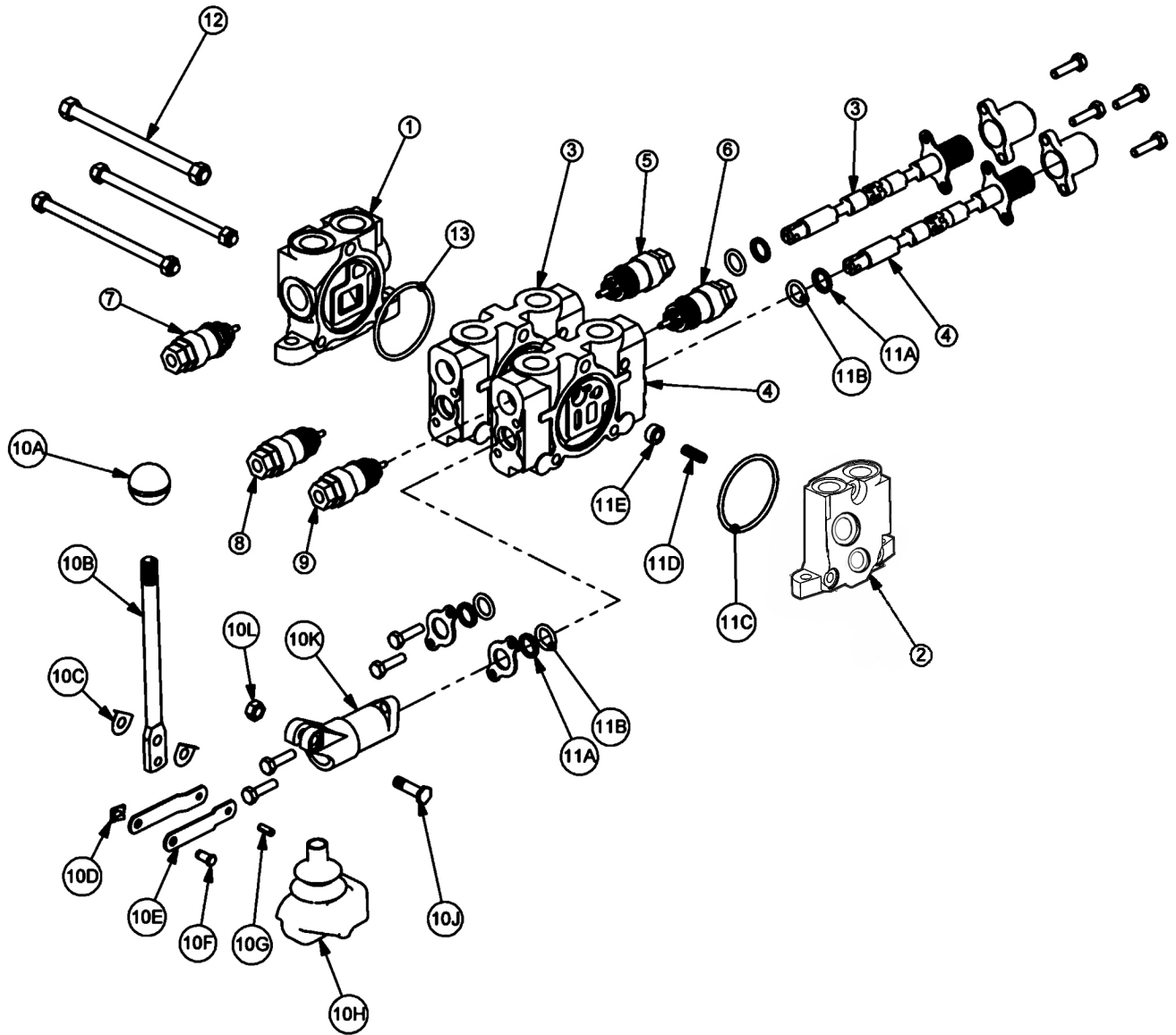


CABLE (MANUAL) LIFT VALVE - 2 SPOOL COMBO

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 06502151 | 1 | VALVE,2SP |
| 2 | 06340033 | 1 | VALVE MNT |
| 3 | 34622 | 1 | PLATE,VALVE,REAR MNT |
| 4 | 21632 | 6 | CAPSCREW,3/8" X 1-1/2",NC |
| 5 | 6T2615 | 4 | WASHER,FENDER,3/8" |
| 6 | 21627 | 10 | NYLOCK NUT,3/8",NC |
| 7 | 21630 | 4 | CAPSCREW,3/8" X 1",NC |
| 8 | 22016 | 4 | FLATWASHER,3/8" |
| 9 | 06505100 | 2 | CBL,CNTRL,108" |
| 10 | 6T4411 | 2 | CLEVIS,CBL CTRL,3/16" |
| 11 | 6T3017 | 2 | ROLLPIN,3/16" X 1" |
| 12 | 21500 | 4 | HEX NUT,1/4",NF |
| 14 | 33271 | 3 | ADAPTER,1/2"MOR X 3/8"MJ |
| 15 | 33562 | 1 | HOSE,1/4" X 130" |
| 16 | 33364 | 2 | HOSE,1/4" X 120" |
| 20 | 06500782 | 2 | HOSE,3/4" X 70" |
| 21 | 06503023 | 3 | ADAPTER |
| 22 | 06500783 | 1 | HOSE, 3/4" X 30" |

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502051

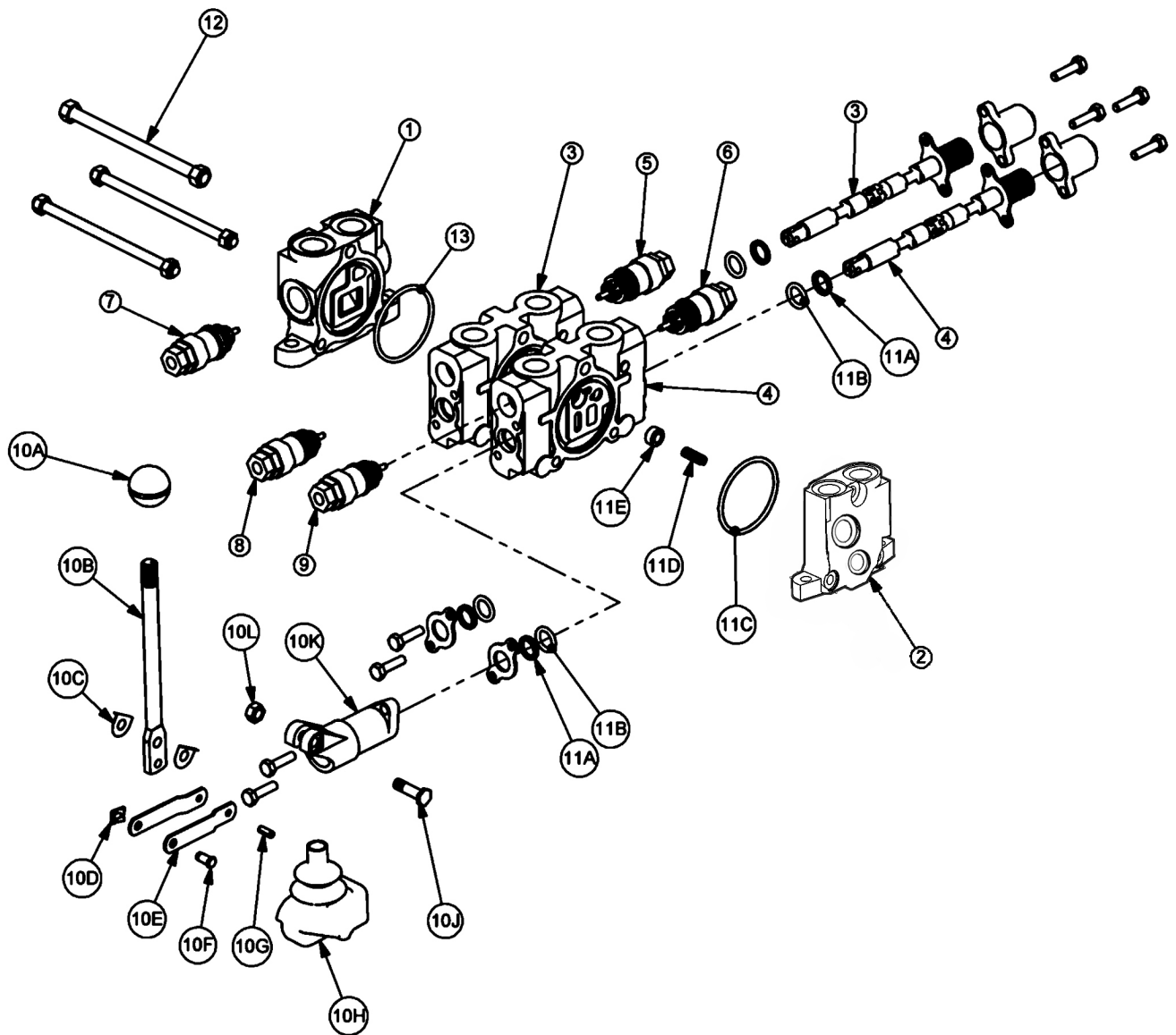


CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502051

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06502149 | 1 | INLET END COVER |
| 2 | 06502150 | 1 | END COVER,OPEN CENTER |
| 3 | TB1017P | 1 | VALVE SECTION (SINGLE ACTING,SPRING DETENT) |
| 4 | 06502091 | 1 | VALVE SECTION (DOUBLE ACTING,CENTER SPRING) |
| 5 | N/A | - | N/A |
| 6 | 31861 | 1 | RELIEF VALVE, 360 PSI |
| 7 | TB1017E | 1 | RELIEF VALVE, 2250 PSI |
| 8 | TB1017M | 1 | SHUT-OFF PLUG |
| 9 | TB1017M | 1 | SHUT-OFF PLUG |
| 10 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 10A | ----- | 1 | LEVER KNOB |
| 10B | ----- | 1 | LEVER |
| 10C | ----- | 2 | LEVER WASHER |
| 10D | ----- | 1 | LEVER CLIP |
| 10E | ----- | 2 | LINKAGE |
| 10F | ----- | 1 | LEVER PIN |
| 10G | ----- | 1 | ROLL PIN |
| 10H | ----- | 1 | LEVER BOOT |
| 10J | ----- | 1 | LEVER BOLT |
| 10K | ----- | 1 | LEVER DUST COVER |
| 10L | ----- | 1 | LEVER NUT |
| 11 | TB1017A | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 2 | O-RING LARGE |
| 11D | ----- | 1 | SPRING |
| 11E | ----- | 1 | PUCKET |
| 12 | TB1017X | 1 | TIE ROD KIT |
| 13 | 24214 | 1 | O-RING, LARGE |

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 24500

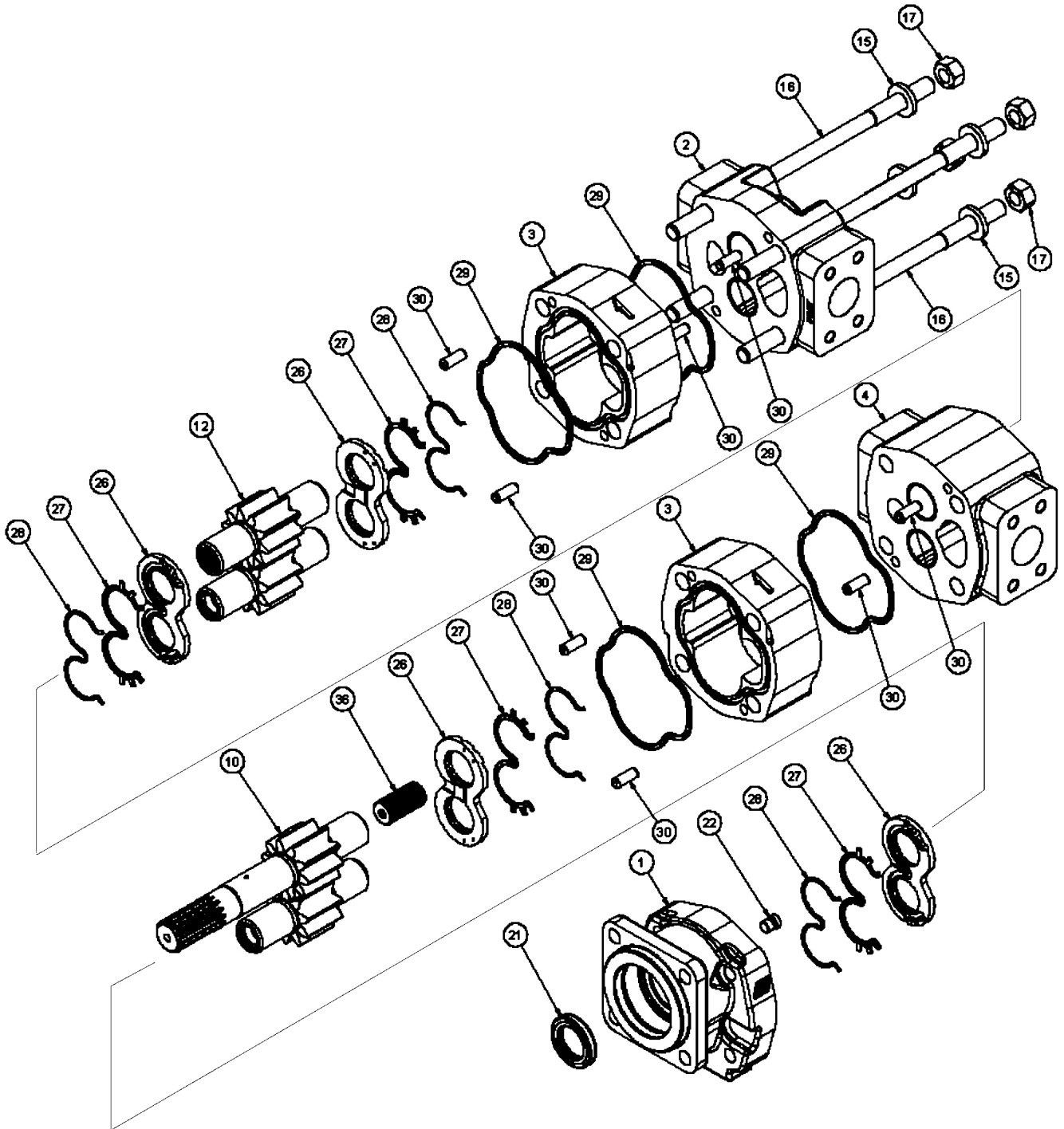


CABLE (MANUAL) LIFT VALVE BREAKDOWN - 24500

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | TB1017S | 1 | INLET END COVER |
| 2 | TB1701 | 1 | END COVER,OPEN CENTER |
| 3 | TB1017P | 1 | VALVE SECTION (SINGLE ACTING,SPRING DETENT) |
| 4 | TB1017P | 1 | VALVE SECTION (SINGLE ACTING,SPRING DETENT) |
| 5 | N/A | - | N/A |
| 6 | N/A | - | N/A |
| 7 | TB1017E | 1 | RELIEF VALVE, 2250 PSI |
| 8 | TB1017M | 1 | SHUT-OFF PLUG |
| 9 | TB1017M | 1 | SHUT-OFF PLUG |
| 10 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 10A | ----- | 1 | LEVER KNOB |
| 10B | ----- | 1 | LEVER |
| 10C | ----- | 2 | LEVER WASHER |
| 10D | ----- | 1 | LEVER CLIP |
| 10E | ----- | 2 | LINKAGE |
| 10F | ----- | 1 | LEVER PIN |
| 10G | ----- | 1 | ROLL PIN |
| 10H | ----- | 1 | LEVER BOOT |
| 10J | ----- | 1 | LEVER BOLT |
| 10K | ----- | 1 | LEVER DUST COVER |
| 10L | ----- | 1 | LEVER NUT |
| 11 | TB1017A | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 2 | O-RING LARGE |
| 11D | ----- | 1 | SPRING |
| 11E | ----- | 1 | PUCKET |
| 12 | TB1017X | 1 | TIE ROD KIT |
| 13 | 24214 | 1 | O-RING, LARGE |

REAR HYDRAULIC PUMP BREAKDOWN

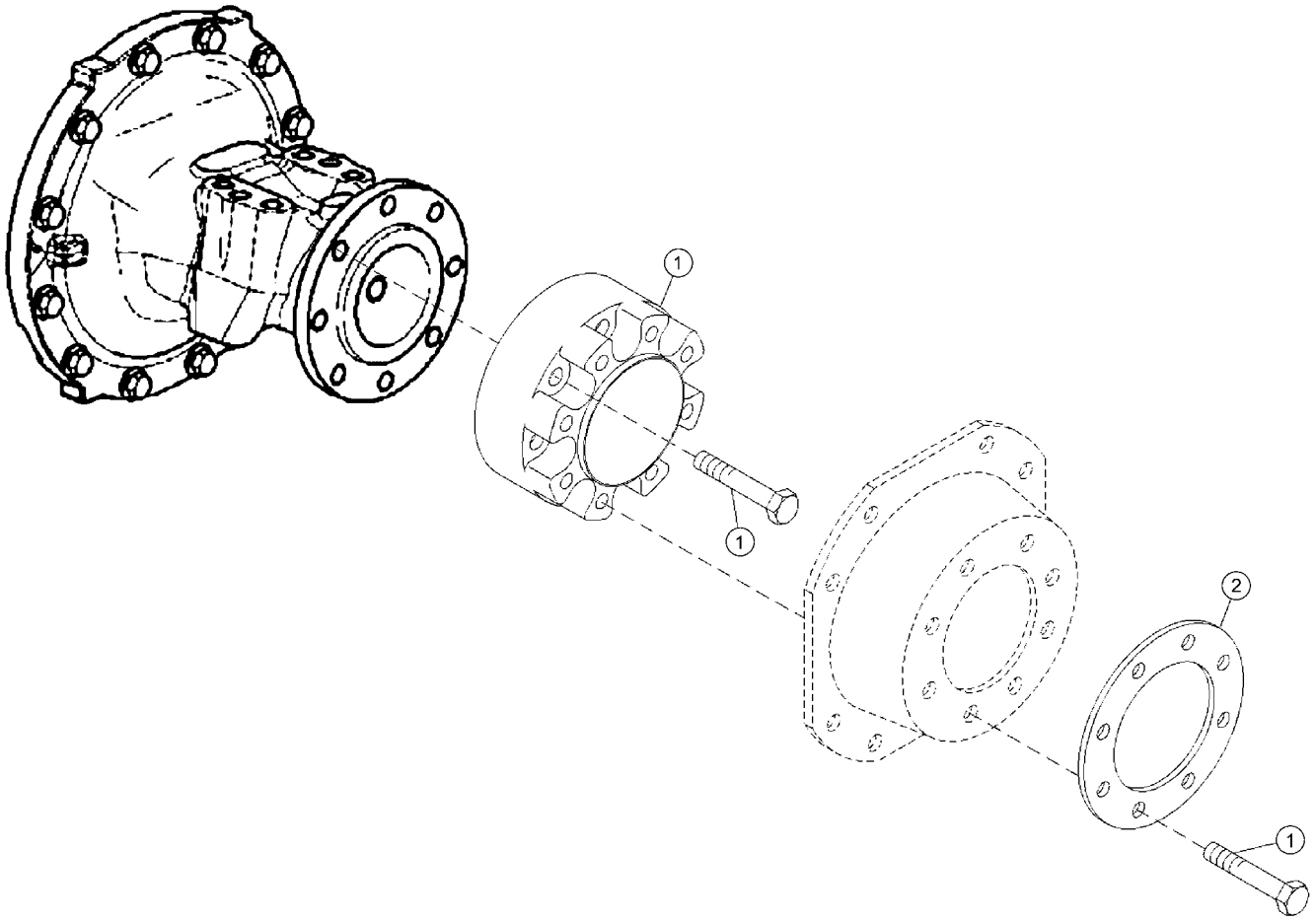


REAR HYDRAULIC PUMP BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------------|
| 1 | 06504133 | 1 | HOUSING,SEC |
| 2 | 06504082 | 1 | HOUSING,PEC |
| 3 | 06504134 | 2 | HOUSING,GEAR |
| 4 | 06504135 | 1 | HOUSING,BEARING CARRIER |
| 10 | 06504136 | 1 | SET,GEARSHAFT |
| 12 | 06504137 | 1 | GEAR,SET |
| 15 | 02961917 | 4 | WASHER |
| 16 | 06504138 | 4 | STUD |
| 17 | 22782 | 4 | NUT,HEX |
| 21 | 22765 | 1 | SEAL,LIP |
| 22 | 02961920 | 1 | PLUG |
| 26 | 02987939 | 4 | THRPL |
| 27 | 02987941 | 4 | SEAL,CHAN |
| 28 | 02987940 | 4 | SEAL,BK-UP |
| 29 | 02987942 | 4 | SEAL,SQ-R |
| 30 | 02979953 | 8 | PIN,DOWEL |
| 36 | 06504079 | 1 | SFT,CONN |
| --- | 22764 | 1 | SEAL KIT (ITEMS 21, 27, 28 & 29) |

WHEEL SPACER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------|
| 1 | 06770025 | 1 | KIT,SPCR,WHL,JD |
| 2 | 06400919 | 1 | RING,SPACER,WHEEL,JD |

COMMON SIDE ROTARY

PARTS SECTION

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COMMON SIDE ROTARY

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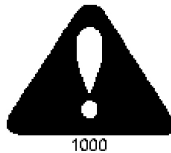
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PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this manual.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
2. The Purchase Order must indicate the **Name and Address** of the person or organization ordering the parts, **who should be charged**, and if possible, the **serial number of the machine** for which the parts are being ordered.
3. The purchase order must clearly list the **quantity of each part**, the complete and correct **part number**, and the basic **name of the part**.
4. The manufacturer reserves the right to substitute parts where applicable.
5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
6. The manufacturer reserves the right to change prices without prior notice.

NOTE: When ordering replacement decals, refer to the part numbers and descriptions listed in the safety section in the front of this manual.

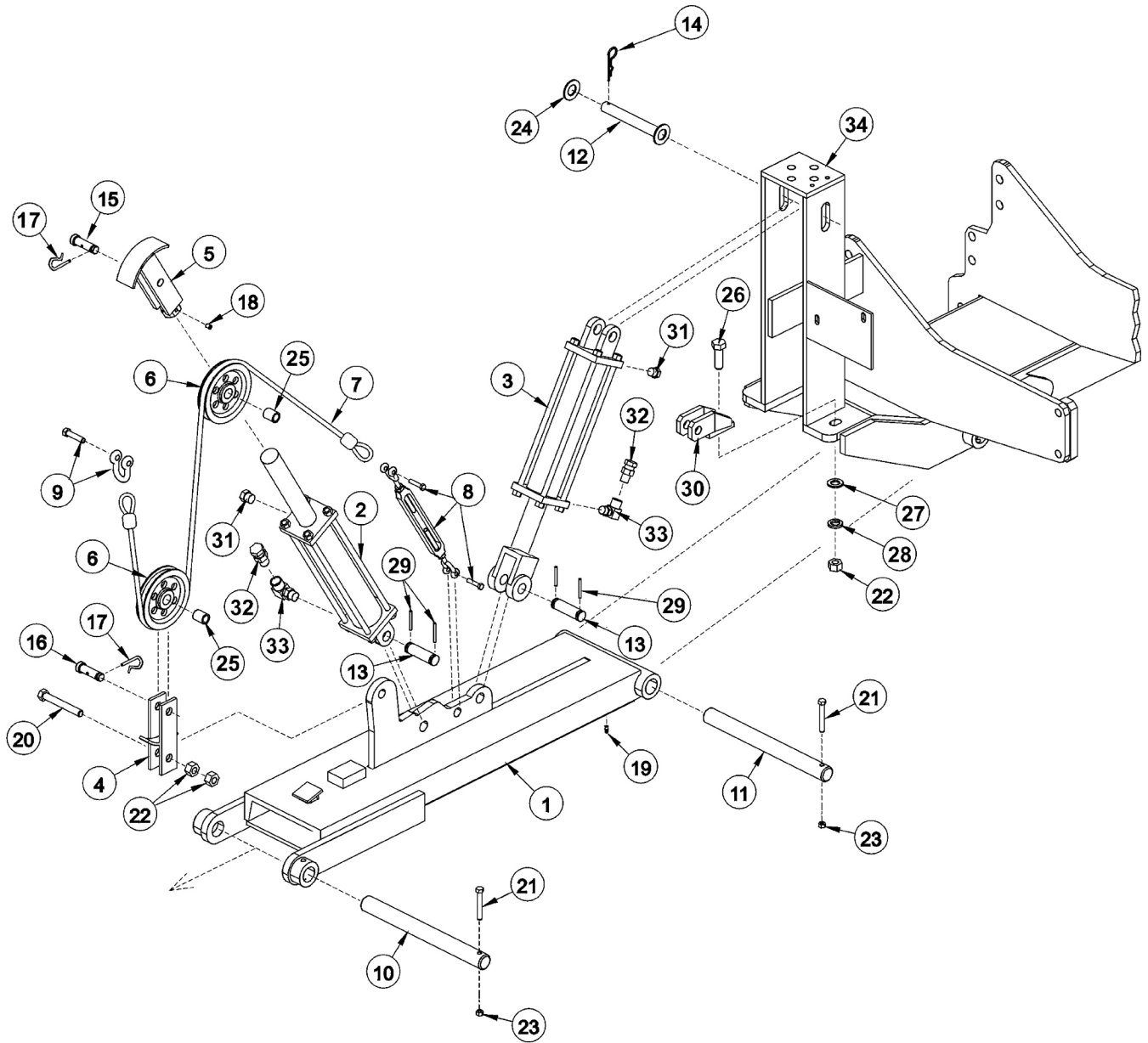


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

Tiger Corporation
3301 N. Louise Ave.
Sioux Falls, SD 57107
1-800-843-6849
1-605-336-7900

CABLE DRAFT BEAM ASSEMBLY



COMMON SIDE ROTARY

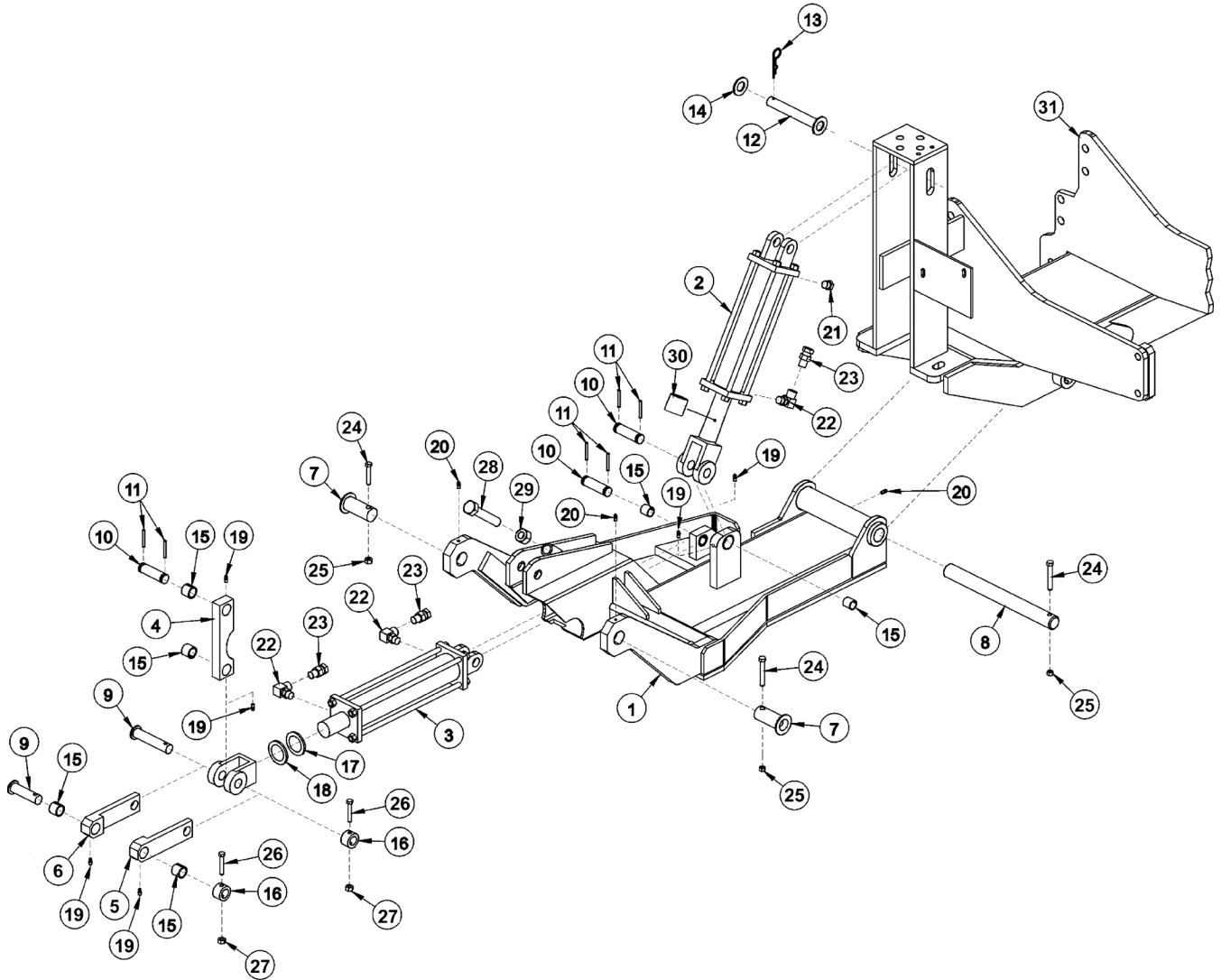
CABLE DRAFT BEAM ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|--|
| 1 | 6T0105 | - | DRAFT BEAM (STD WITH TRAVEL LOCK) |
| ----- | 27241 | - | DRAFT BEAM (EXTENDED 6") |
| 2 | 6T0150 | 1 | CYLINDER 3" X 18" |
| 3 | 6T0151R | 1 | HYD. CYLINDER 3" X 10" |
| 4 | 6T0100 | 1 | LOWER SHEAVE BRACKET |
| 5 | 6T0101 | 1 | UPPER SHEAVE BRACKET |
| 6 | 33768 | 2 | SHEAVE |
| 7 | 6T0110 | 1 | LIFT CABLE (STD 1/2" X 87 1/2") |
| ----- | 6T0110E | - | LIFT CABLE (EXTENDED 6") |
| 8 | 6T0115 | 1 | TURN BUCKLE |
| 9 | 6T0112 | 1 | SHACKLE WITH PIN |
| 10 | 6T2999 | 1 | OUTER DRAFT BEAM PIN 1 1/2" X 14 1/2" |
| 11 | 6T3001 | 1 | INNER DRAFT BEAM PIN 1 1/2" X 15 3/4" |
| 12 | 6T3005 | 1 | CYLINDER PIN 1" X 6 5/8" |
| 13 | TB1033 | 2 | CLEVIS PIN 1" X 4" |
| 14 | 6T3004 | 1 | R - CLIP 3/16" |
| 15 | 6T3010 | 1 | UPPER SHEAVE PIN WITH ZERK 3/4" X 3" |
| 16 | 6T3009 | 1 | LOWER SHEAVE PIN WITH ZERK 3/4" X 2 1/2" |
| 17 | 6T3020 | 2 | R - CLIP 5/32" |
| 18 | 6T2272 | 1 | SET SCREW 3/8" X 1/2" |
| 19 | 6T3211 | 1 | GREASE ZERK 1/8" STRAIGHT |
| 20 | 21837 | 1 | CAPSCREW 3/4" X 3 1/4" |
| 21 | 21688 | 2 | CAPSCREW 7/16" X 3 1/4" |
| 22 | 21825 | 2 | HEX NUT 3/4" |
| 23 | 21677 | 2 | NYLOCK NUT 7/16" |
| 24 | 22023 | 1 | FLAT WASHER 1" |
| 25 | 6T0104N | 2 | SHEAVE PIN BUSHING 1" OD X 3/4" ID |
| 26 | 21833 | 1 | CAPSCREW 3/4" X 2 1/4" |
| 27 | 22021 | 1 | FLAT WASHER 3/4" |
| 28 | 21993 | 1 | LOCK WASHER 3/4" |
| 29 | 06537021 | 4 | ROLL PIN |
| 30 | 6T0106 | 1 | TRAVEL LOCK BRACKET |
| 31 | 6T4258 | 2 | BREATHER 1/2" |
| 32 | 34396 | 2 | RESTRICTOR |
| 33 | 34244 | 2 | ELBOW FITTING 1/2" |
| 34 | ----- | - | MAIN FRAME *REFER TO TRACTOR PARTS SECTION |

COMMON SIDE ROTARY

COMBO DRAFT BEAM ASSEMBLY



NOTES:

1. ITEM 30 IS USED ON THE GLAND END OF ITEM 2 (AS NEEDED)
2. ORIENTATION OF ITEMS 4,5 & 6 ARE CRITICAL

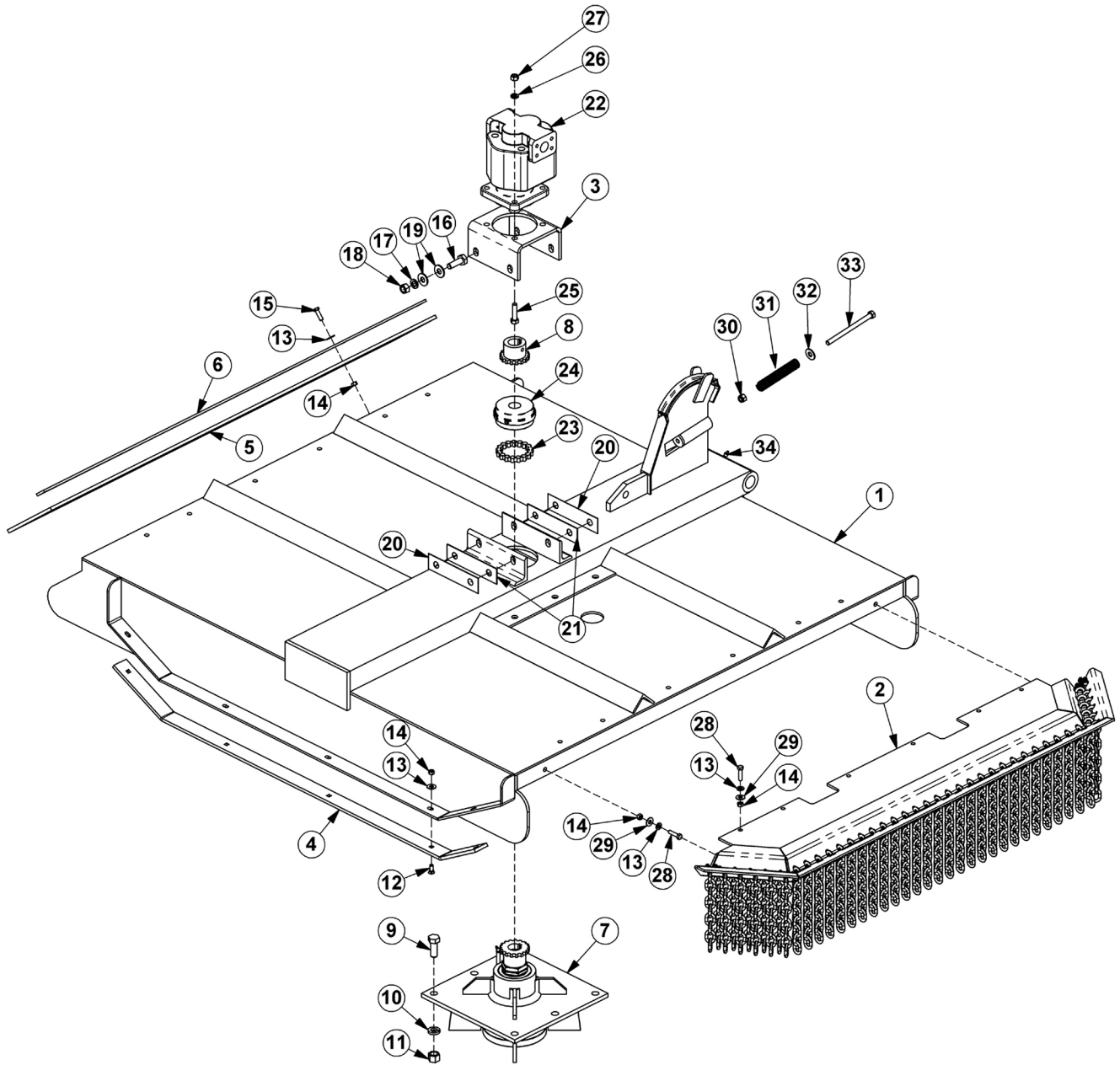
COMBO DRAFT BEAM ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06350001 | 1 | COMBO DRAFT BEAM - STD DTY ROTARY |
| --- | 31063 | - | COMBO DRAFT BEAM - HVY DTY ROTARY |
| 2 | 6T0151R | 1 | HYD. CYLINDER 3" X 10" |
| 3 | 32215 | 1 | HYD. CYLINDER 3" X 12" - STD DTY |
| --- | 25343 | - | HYD. CYLINDER 3" X 12" - HVY DTY |
| 4 | TF4500A | 1 | PIVOT ARM |
| 5 | TF4507B | 1 | RIGHT LINKAGE ARM |
| 6 | TF4506B | 1 | LEFT LINKAGE ARM |
| 7 | 30126B | 2 | PIN, HEAD PIVOT - STD DTY |
| --- | TF4514A | - | PIN, HEAD PIVOT - HVY DTY |
| 8 | 6T3001 | 1 | PIN, BEAM PIVOT |
| 9 | TF4519 | 2 | PIN, LINKAGE |
| 10 | TB1033 | 3 | PIN, CLEVIS |
| 11 | 06537021 | 6 | ROLLPIN |
| 12 | 6T3005 | 1 | PIN, 1" W/ CAP |
| 13 | 6T3004 | 1 | R-CLIP HAIRPIN |
| 14 | 6T2614 | 1 | FLATWASHER 1" |
| 15 | TB3010 | 8 | BUSHING 1" |
| 16 | 22847 | 2 | BOSS, LINKAGE PIN |
| 17 | 22076 | 1 | SPACER, HYD. CYLINDER 1/4" |
| 18 | 22077 | 1 | SPACER, HYD. CYLINDER 5/16" |
| 19 | 6T3207 | 6 | GREASE ZERK 1/4" |
| 20 | 6T3211 | 3 | GREASE ZERK 1/8" |
| 21 | 6T4258 | 1 | BREATHER 1/2" |
| 22 | 34244 | 3 | ELBOW FITTING 1/2" |
| 23 | 34396 | 3 | SWIVEL RESTRICTOR |
| 24 | 21688 | 3 | CAPSCREW 7/16" X 3 1/4" |
| 25 | 21677 | 3 | NYLOCK NUT 7/16" |
| 26 | 21635 | 2 | CAPSCREW 3/8" X 2 1/4" |
| 27 | 21625 | 2 | HEX NUT 3/8" |
| 28 | 21831 | 1 | CAPSCREW 3/4" X 1 3/4" |
| 29 | 21825 | 1 | HEX NUT 3/4" |
| 30 | 06700095 | 1 | CYLINDER SPACER W/SET SCREW |
| 31 | ----- | - | MAIN FRAME *REFER TO TRACTOR MOUNT PAGE |

COMMON SIDE ROTARY

60IN SIDE CABLE TM ROTARY MOWER



COMMON SIDE ROTARY

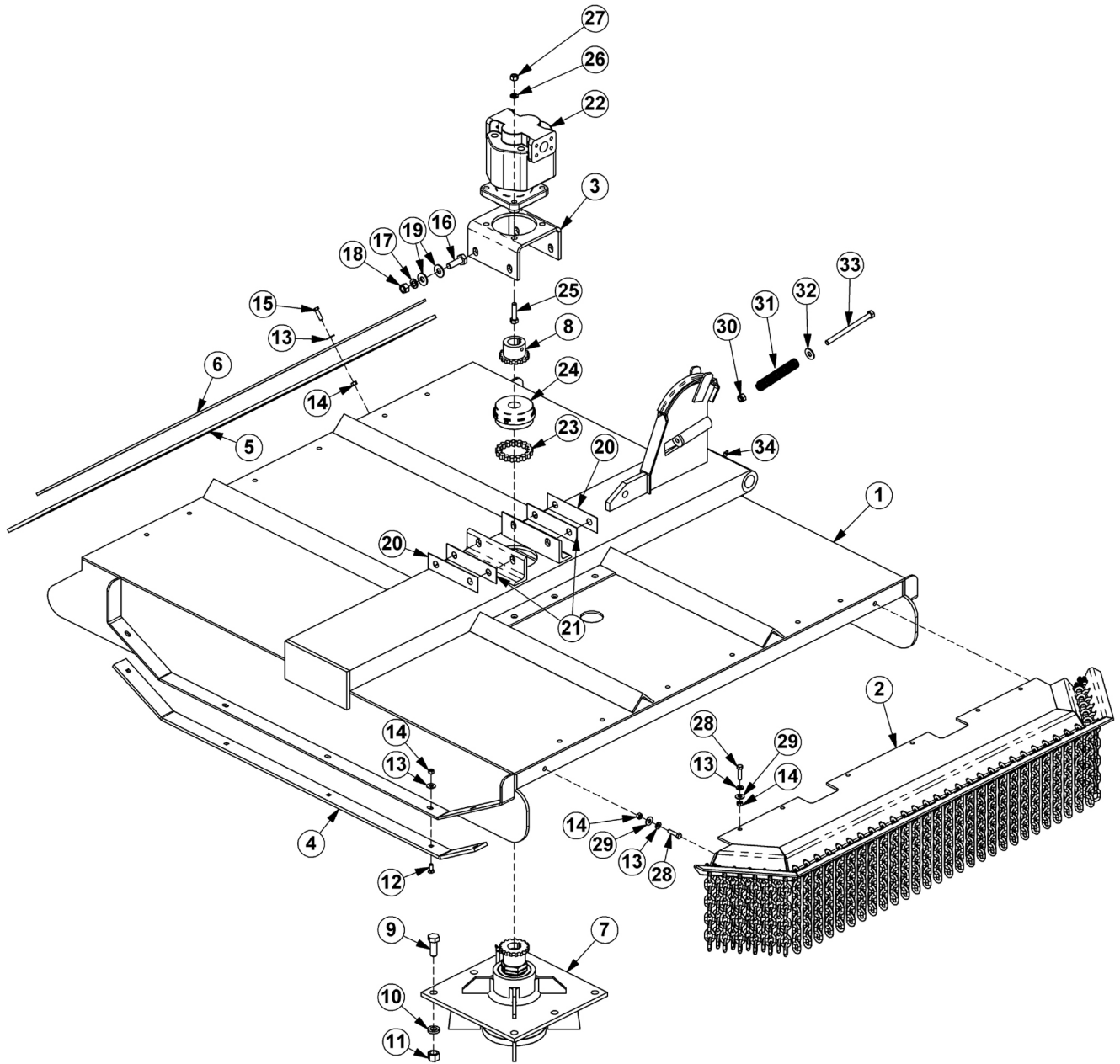
60IN SIDE CABLE TM ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| 1 | 32099 | 1 | RTRY, 60" DECK, CABLE |
| 2 | 31773 | 1 | GAURD,CHAIN,FRONT,SR60 |
| 3 | 6T1001 | 1 | BRKT, MOTOR MTG, 60"SIDE RTRY |
| 4 | 6T0820H | 2 | SKID SHOE, TM60 |
| 5 | 22592 | 1 | FLAP, DEFLECTOR, TM60 |
| 6 | 6T0823 | 1 | BAR, FLAP, TM60 |
| 7 | 6T1024H5 | 1 | SPINDLE ASSY,CPLT,HD,5/8" HOLES |
| 8 | 21223 | 1 | SPROCKET, 1-1/4" BORE |
| 9 | 6T2277 | 6 | CAPSCREW,3/4" X 2",NF |
| 10 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 11 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 12 | 6T2270 | 10 | PLOW BOLT,3/8" X 1",NC |
| 13 | 22016 | 29 | FLATWASHER,3/8" |
| 14 | 21625 | 29 | HEX NUT,3/8",NC |
| 15 | 21631 | 11 | CAPSCREW, 3/8" X 1-1/4",NC |
| 16 | 21783 | 4 | CAPSCREW, 5/8" X 2",NC |
| 17 | 21992 | 4 | LOCKWASHER, 5/8" |
| 18 | 21775 | 4 | HEX NUT, 5/8" |
| 19 | 25270 | 8 | FLATWASHER,5/8",GR 8 |
| 20 | 6T0822 | 2 | SHIM, MOTOR MOUNT, 14GA. (AS NEEDED) |
| 21 | 6T0822A | 2 | SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED) |
| 22 | 06504011 | 1 | MOTOR,(M365-2 1/4" GEAR) |
| 23 | 6T1029 | 1 | CHAIN, COUPLING |
| 24 | 6T1033 | 1 | COVER, COUPLING |
| 25 | 21733 | 4 | CAPSCREW, 1/2" X 2",NC |
| 26 | 21990 | 4 | LOCKWASHER,1/2" |
| 27 | 21725 | 4 | HEX NUT, 1/2",NC |
| 28 | 21632 | 8 | CAPSCREW,3/8" X 1-1/2",NC |
| 29 | 21988 | 8 | LOCKWASHER,3/8" |
| 30 | 21727 | 1 | NYLOCK NUT,1/2",NC |
| 31 | 27005 | 1 | SPRING,PUSHOFF,SIDE RTRY |
| 32 | 22018 | 1 | FLATWASHER,1/2",WIDE |
| 33 | 21745 | 1 | CAPSCREW,1/2" X 7",NC |
| 34 | 6T3211 | 1 | GREASE ZERK |

COMMON SIDE ROTARY

72IN SIDE CABLE TM ROTARY MOWER



COMMON SIDE ROTARY

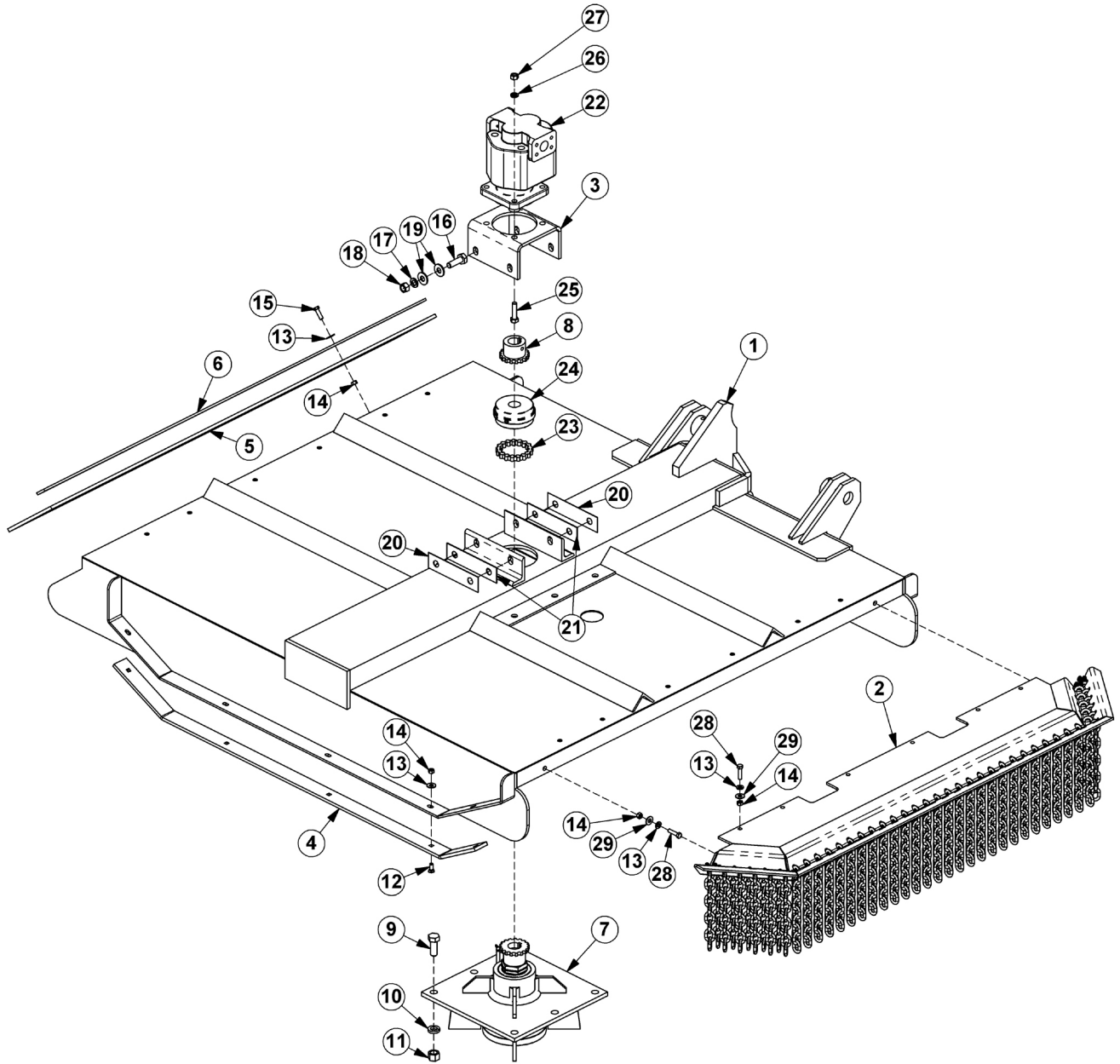
72IN SIDE CABLE TM ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| 1 | 21225B | 1 | RTRY,72" DECK, CABLE |
| 2 | 31931 | 1 | GUARD,CHAIN,FRONT,SR72 |
| 3 | 6T1001 | 1 | BRKT, MOTOR MTG, 60"SIDE RTRY |
| 4 | 21248 | 2 | SKID SHOE, TM72 |
| 5 | 21295B | 1 | FLAP, DEFLECTOR, TM72 |
| 6 | 21242A | 1 | BAR, FLAP, TM72 |
| 7 | 6T1024H5 | 1 | SPINDLE ASSY,CPLT,HD,5/8" HOLES |
| 8 | 21223 | 1 | SPROCKET, 1-1/4" BORE |
| 9 | 6T2277 | 6 | CAPSCREW,3/4" X 2",NF |
| 10 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 11 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 12 | 6T2270 | 10 | PLOW BOLT,3/8" X 1",NC |
| 13 | 22016 | 29 | FLATWASHER,3/8" |
| 14 | 21625 | 29 | HEX NUT,3/8",NC |
| 15 | 21631 | 11 | CAPSCREW, 3/8" X 1-1/4",NC |
| 16 | 21783 | 4 | CAPSCREW, 5/8" X 2",NC |
| 17 | 21992 | 4 | LOCKWASHER, 5/8" |
| 18 | 21775 | 4 | HEX NUT, 5/8" |
| 19 | 25270 | 8 | FLATWASHER,5/8",GR 8 |
| 20 | 6T0822 | 2 | SHIM, MOTOR MOUNT, 14GA. (AS NEEDED) |
| 21 | 6T0822A | 2 | SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED) |
| 22 | 06504011 | 1 | MOTOR,(M365-2 1/4" GEAR) |
| 23 | 6T1029 | 1 | CHAIN, COUPLING |
| 24 | 6T1033 | 1 | COVER, COUPLING |
| 25 | 21733 | 4 | CAPSCREW, 1/2" X 2",NC |
| 26 | 21990 | 4 | LOCKWASHER,1/2" |
| 27 | 21725 | 4 | HEX NUT, 1/2",NC |
| 28 | 21632 | 8 | CAPSCREW,3/8" X 1-1/2",NC |
| 29 | 21988 | 8 | LOCKWASHER,3/8" |
| 30 | 21727 | 1 | NYLOCK NUT,1/2",NC |
| 31 | 27005 | 1 | SPRING,PUSHOFF,SIDE RTRY |
| 32 | 22018 | 1 | FLATWASHER,1/2",WIDE |
| 33 | 21745 | 1 | CAPSCREW,1/2" X 7",NC |
| 34 | 6T3211 | 1 | GREASE ZERK |

COMMON SIDE ROTARY

60IN SIDE COMBO TM ROTARY MOWER



COMMON SIDE ROTARY

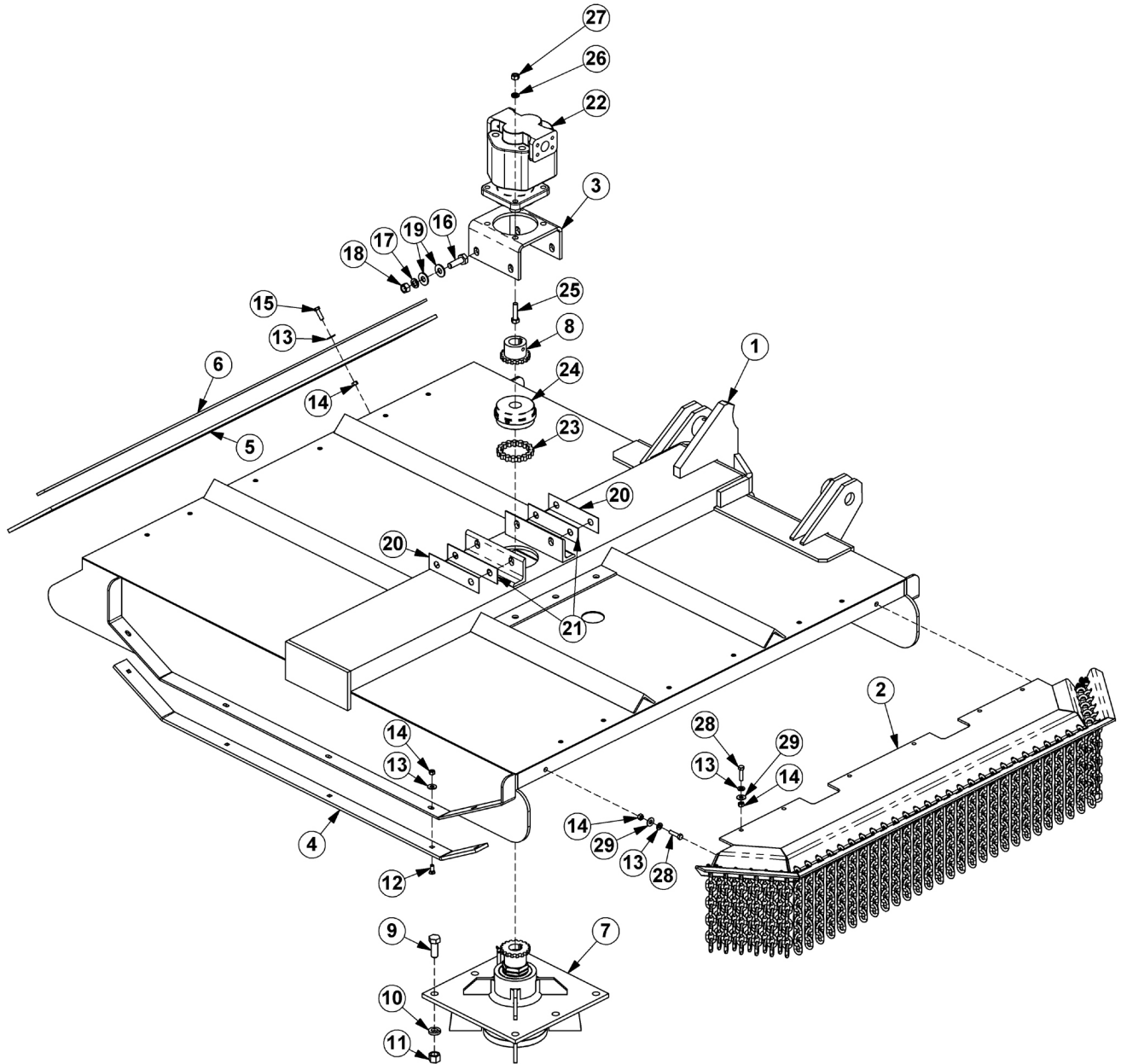
60IN SIDE COMBO TM ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| 1 | 30087D | 1 | RTRY, 60" DECK, COMBO - STD DUTY |
| --- | 32617 | 1 | RTRY, 60" DECK, COMBO - HEAVY DUTY |
| 2 | 31773 | 1 | GUARD,CHAIN,FRONT,SR60 |
| 3 | 6T1001 | 1 | BRKT, MOTOR MTG, 60"SIDE RTRY |
| 4 | 6T0820H | 2 | SKID SHOE, TM60 |
| 5 | 22592 | 1 | FLAP, DEFLECTOR, TM60 |
| 6 | 6T0823 | 1 | BAR, FLAP, TM60 |
| 7 | 6T1024H5 | 1 | SPINDLE ASSY,CPLT,HD,5/8" HOLES |
| 8 | 21223 | 1 | SPROCKET, 1-1/4" BORE |
| 9 | 6T2277 | 6 | CAPSCREW,3/4" X 2",NF |
| 10 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 11 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 12 | 6T2270 | 10 | PLOW BOLT,3/8" X 1",NC |
| 13 | 22016 | 29 | FLATWASHER,3/8" |
| 14 | 21625 | 29 | HEX NUT,3/8",NC |
| 15 | 21631 | 11 | CAPSCREW, 3/8" X 1-1/4",NC |
| 16 | 21783 | 4 | CAPSCREW, 5/8" X 2",NC |
| 17 | 21992 | 4 | LOCKWASHER, 5/8" |
| 18 | 21775 | 4 | HEX NUT, 5/8" |
| 19 | 25270 | 8 | FLATWASHER,5/8",GR 8 |
| 20 | 6T0822 | 2 | SHIM, MOTOR MOUNT, 14GA. (AS NEEDED) |
| 21 | 6T0822A | 2 | SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED) |
| 22 | 06504011 | 1 | MOTOR,(M365-2 1/4" GEAR) |
| 23 | 6T1029 | 1 | CHAIN, COUPLING |
| 24 | 6T1033 | 1 | COVER, COUPLING |
| 25 | 21733 | 4 | CAPSCREW, 1/2" X 2",NC |
| 26 | 21990 | 4 | LOCKWASHER,1/2" |
| 27 | 21725 | 4 | HEX NUT, 1/2",NC |
| 28 | 21632 | 8 | CAPSCREW,3/8" X 1-1/2",NC |
| 29 | 21988 | 8 | LOCKWASHER,3/8" |

COMMON SIDE ROTARY

72IN SIDE COMBO TM ROTARY MOWER



COMMON SIDE ROTARY

72IN SIDE COMBO TM ROTARY MOWER

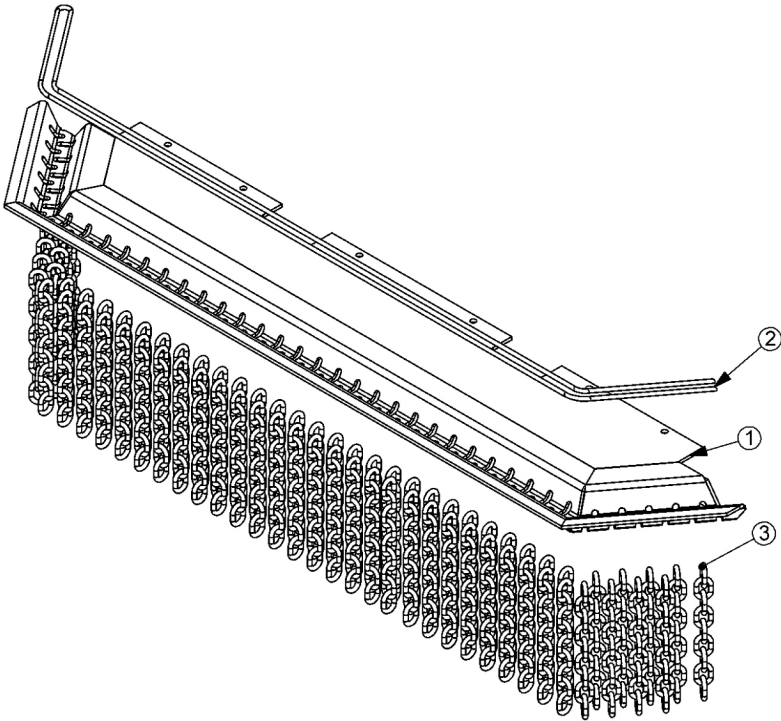
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| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| 1 | 34260 | 1 | RTRY, 72" DECK, COMBO - STD DUTY |
| --- | 31408A | 1 | RTRY, 72" DECK, COMBO - HEAVY DUTY |
| 2 | 31931 | 1 | GUARD,CHAIN,FRONT,SR72 |
| 3 | 6T1001 | 1 | BRKT, MOTOR MTG, 60"SIDE RTRY |
| 4 | 21248 | 2 | SKID SHOE, TM72 |
| 5 | 21295B | 1 | FLAP, DEFLECTOR, TM72 |
| 6 | 21242A | 1 | BAR, FLAP, TM72 |
| 7 | 6T1024H5 | 1 | SPINDLE ASSY,CPLT,HD,5/8" HOLES |
| 8 | 21223 | 1 | SPROCKET, 1-1/4" BORE |
| 9 | 6T2277 | 6 | CAPSCREW,3/4" X 2",NF |
| 10 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 11 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 12 | 6T2270 | 10 | PLOW BOLT,3/8" X 1",NC |
| 13 | 22016 | 29 | FLATWASHER,3/8" |
| 14 | 21625 | 29 | HEX NUT,3/8",NC |
| 15 | 21631 | 11 | CAPSCREW, 3/8" X 1-1/4",NC |
| 16 | 21783 | 4 | CAPSCREW, 5/8" X 2",NC |
| 17 | 21992 | 4 | LOCKWASHER, 5/8" |
| 18 | 21775 | 4 | HEX NUT, 5/8" |
| 19 | 25270 | 8 | FLATWASHER,5/8",GR 8 |
| 20 | 6T0822 | 2 | SHIM, MOTOR MOUNT, 14GA. (AS NEEDED) |
| 21 | 6T0822A | 2 | SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED) |
| 22 | 06504011 | 1 | MOTOR,(M365-2 1/4" GEAR) |
| 23 | 6T1029 | 1 | CHAIN, COUPLING |
| 24 | 6T1033 | 1 | COVER, COUPLING |
| 25 | 21733 | 4 | CAPSCREW, 1/2" X 2",NC |
| 26 | 21990 | 4 | LOCKWASHER,1/2" |
| 27 | 21725 | 4 | HEX NUT, 1/2",NC |
| 28 | 21632 | 8 | CAPSCREW,3/8" X 1-1/2",NC |
| 29 | 21988 | 8 | LOCKWASHER,3/8" |

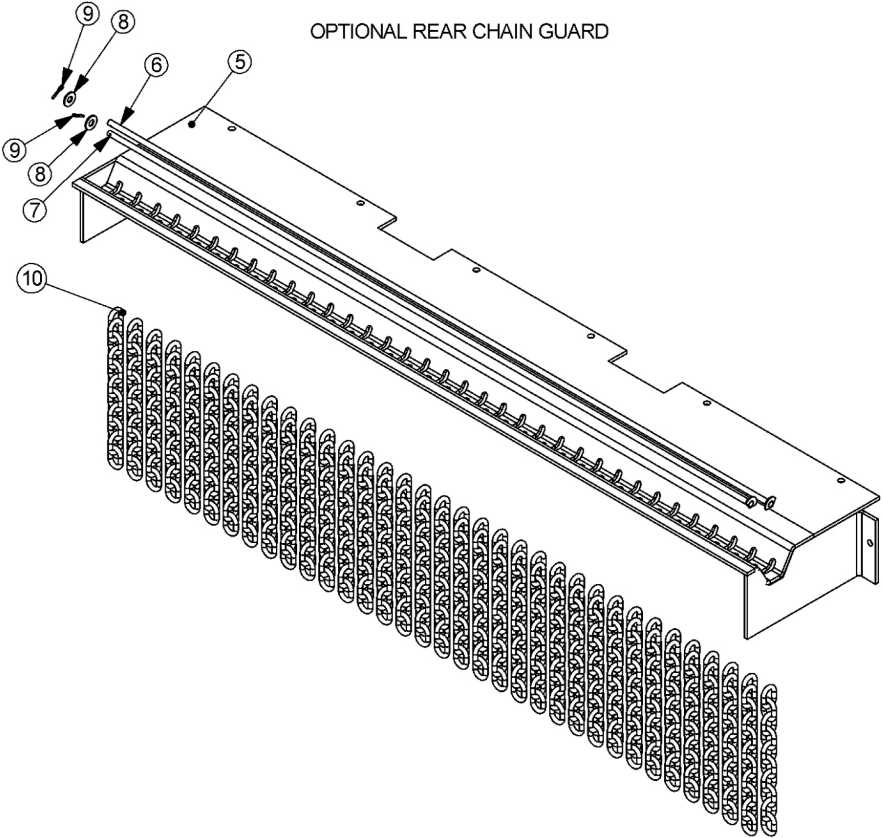
COMMON SIDE ROTARY

60IN SIDE TM CHAIN GUARDS

STANDARD FRONT CHAIN GUARD



OPTIONAL REAR CHAIN GUARD



60IN SIDE TM CHAIN GUARDS

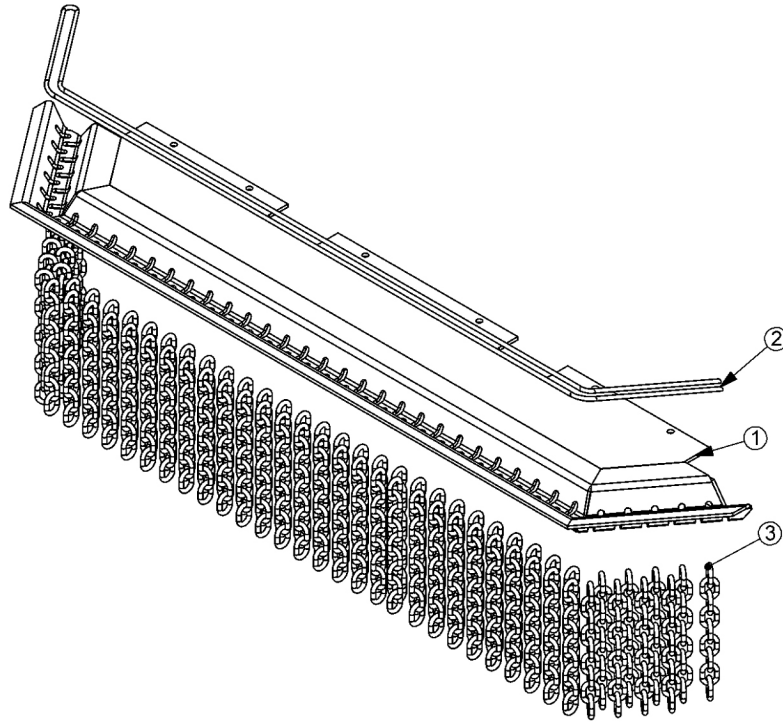
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| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| --- | 31773 | - | GUARD,CHAIN,TM60,FRONT,ASSY |
| 1 | 31762 | 1 | GUARD,CHAIN,TM60,FRONT |
| 2 | 28407 | 12 | CABLE,5/16",BULK (QTY IN FEET) |
| 3 | 22993 | 77 | CHAIN,5/16",GR30,9 LINK |
| 4 | 28408 | 4 | U-BOLT,CABLE,5/16" (NOT SHOWN) |
| --- | 31774 | - | GUARD,CHAIN,TM60,REAR,ASSY |
| 5 | 31763 | 1 | GUARD,CHAIN,TM60,REAR |
| 6 | 31879 | 1 | ROD,SHORT,TM60 |
| 7 | 31878 | 1 | ROD,LONG,TM60 |
| 8 | 22016 | 2 | FLATWASHER,3/8",GR8 |
| 9 | 6T3028 | 2 | COTTER PIN,1/8" X 1" |
| 10 | 22992 | 69 | CHAIN,5/16",GR30,10 LINK |

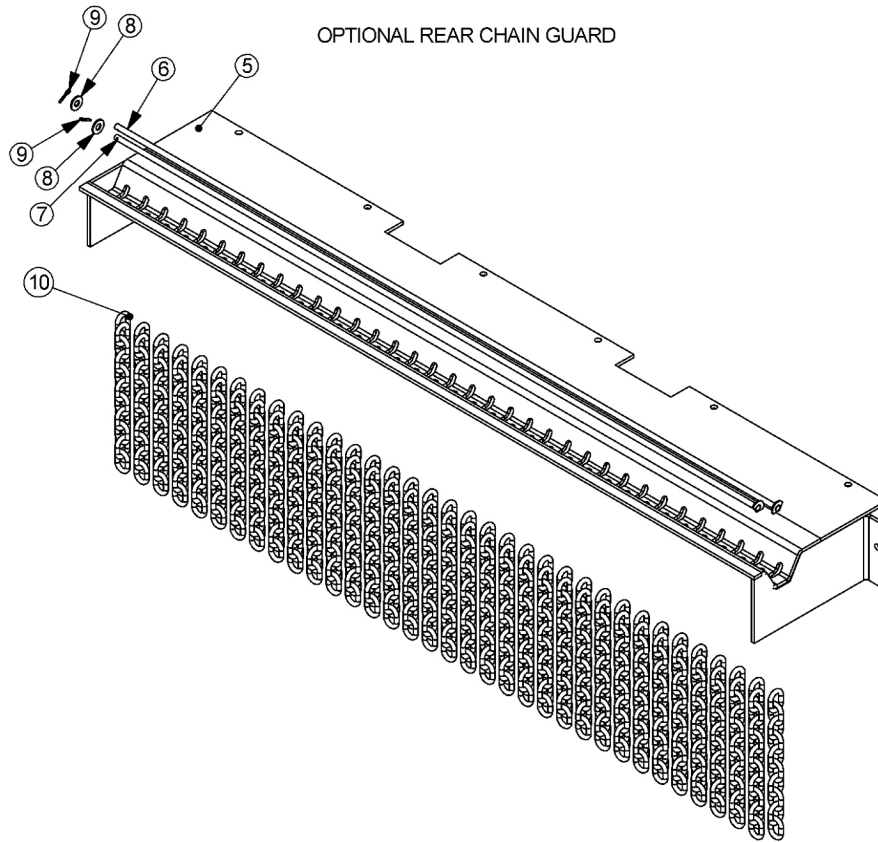
COMMON SIDE ROTARY

72IN SIDE TM CHAIN GUARDS

STANDARD FRONT CHAIN GUARD



OPTIONAL REAR CHAIN GUARD



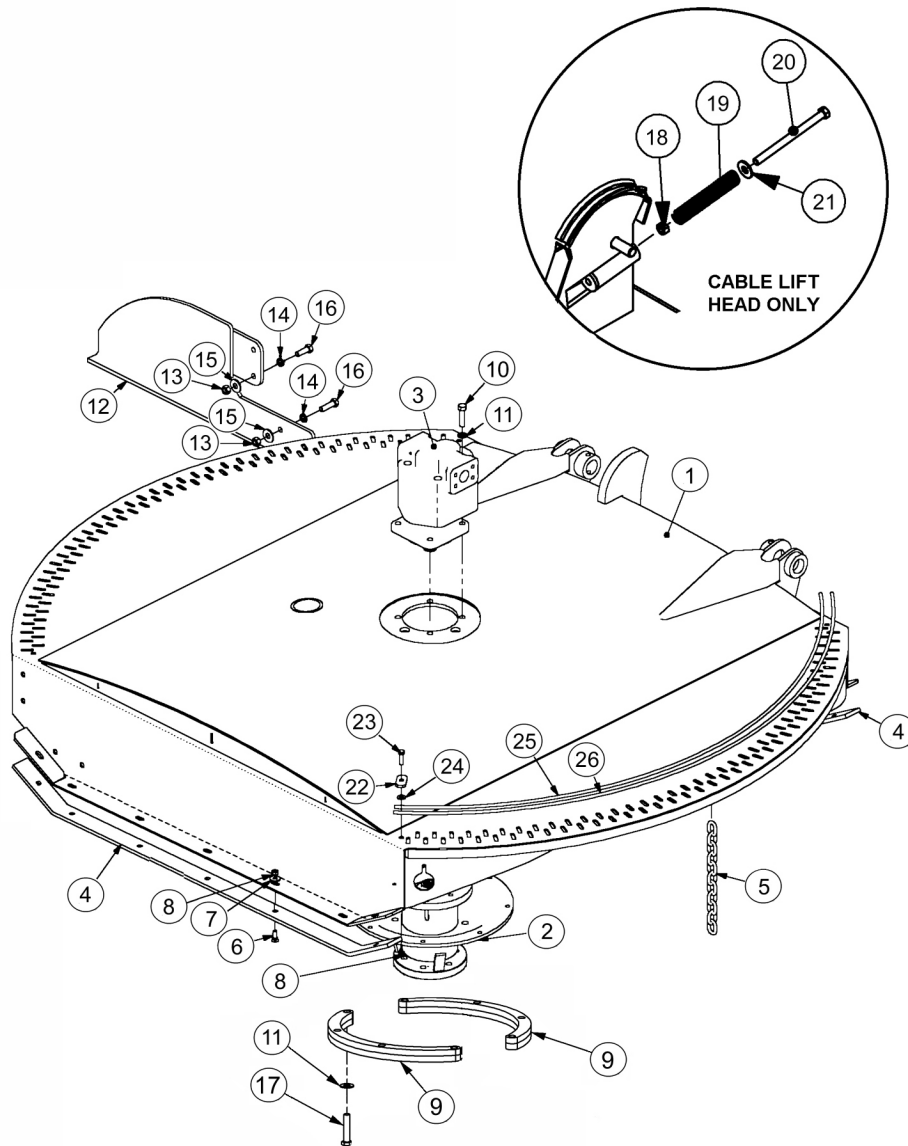
72IN SIDE TM CHAIN GUARDS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| --- | 31931 | - | GUARD,CHAIN,TM72,FRONT,ASSY |
| 1 | 31863 | 1 | GUARD,CHAIN,TM72,FRONT |
| 2 | 28407 | 14 | CABLE,5/16",BULK (QTY IN FEET) |
| 3 | 22993 | 91 | CHAIN,5/16",GR30,9 LINK |
| 4 | 28408 | 4 | U-BOLT,CABLE,5/16" (NOT SHOWN) |
| --- | 31932 | - | GUARD,CHAIN,TM60,REAR,ASSY |
| 5 | 31864 | 1 | GUARD,CHAIN,TM60,REAR |
| 6 | 31934 | 1 | ROD,LONG,TM72 |
| 7 | 31933 | 1 | ROD,SHORT,TM72 |
| 8 | 22016 | 2 | FLATWASHER,3/8",GR8 |
| 9 | 6T3028 | 2 | COTTER PIN,1/8" X 1" |
| 10 | 22992 | 83 | CHAIN,5/16",GR30,10 LINK |

COMMON SIDE ROTARY

60IN SIDE TSR ROTARY MOWER



COMMON SIDE ROTARY

60IN SIDE TSR ROTARY MOWER

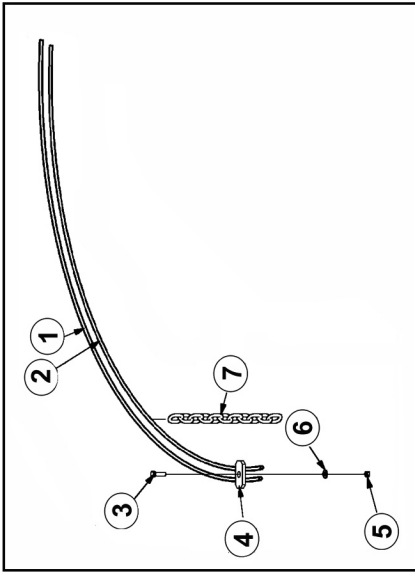
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|---------------------------------------|
| 1 | 34975 | 1 | HEAVY DUTY GRASSKAT COMBO |
| ----- | 06320005 | 1 | STD DUTY GRASSKAT COMBO |
| ----- | 06320008 | 1 | HEAVY DUTY GRASSKAT CABLE |
| 2 | 34980 | 1 | SPINDLE ASSY,TM 60" |
| 3 | 06504016 | 1 | CURRENT MOTOR,(M365-1 1/4" 14-SPLINE) |
| 4 | 06410254 | 2 | SKID,OUTBOARD,TM60 |
| 5 | 22992 | 156 | CHAIN,10 LINK |
| 6 | 6T2270 | 14 | PLOW BOLT,3/8" X 1" NC |
| 7 | 22016 | 26 | FLATWASHER,3/8" |
| 8 | 21625 | 30 | HEX NUT,3/8",NC |
| 9 | 06320011 | 2 | SPACER,TSF,SPINDLE |
| 10 | 6T1025 | 4 | CAPSCREW, 1/2 X 2,GR 8,NC |
| 11 | 06533004 | 12 | FLATWASHER,1/2,SAE,GR 8 |
| 12 | 06370029 | 1 | TIRE GUARD, LEFT |
| 13 | 21725 | 8 | HEX NUT, 1/2",NC |
| 14 | 21990 | 8 | LOCKWASHER, 1/2" |
| 15 | 22018 | 8 | FLATWASHER, 1/2",WIDE |
| 16 | 21731 | 4 | CAPSCREW, 1/2" X 1-1/2" NC |
| 17 | 06530221 | 8 | CAPSCREW,1/2 X 2-1/4,NF,GR8 |
| 18 | 21745 | 1 | NYLOCK NUT, 1/2 |
| 19 | 21727 | 1 | SPRING, PUSHOFF, SIDE RTRY |
| 20 | 27005 | 1 | CAPSCREW, 1/2 X 7,NC |
| 21 | 22018 | 1 | FLATWASHER,1/2",WIDE |
| 22 | 34972 | 4 | PLATE,CAP,CHAIN |
| 23 | 21631 | 16 | CAPSCREW, 3/8 X 1-1/4,NC |
| 24 | 21988 | 16 | LOCKWASHER, 3/8" |
| 25 | 34974 | 2 | ROD,CHAIN,INNER,TM60 |
| 26 | 34973 | 2 | ROD,CHAIN,OUTER,TM60 |

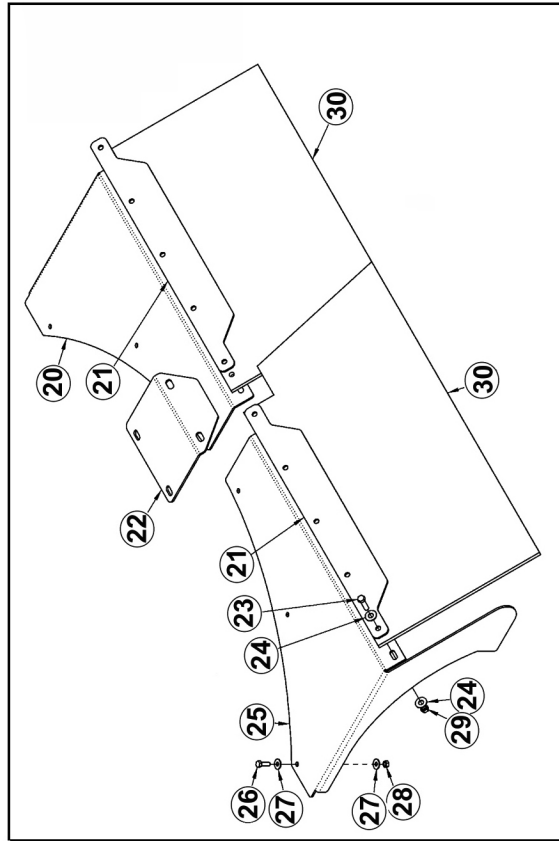
COMMON SIDE ROTARY

60IN SIDE TSR REAR GUARDS

OPTIONAL REAR CHAIN GUARD



STANDARD SQUARE REAR FLAP GUARD



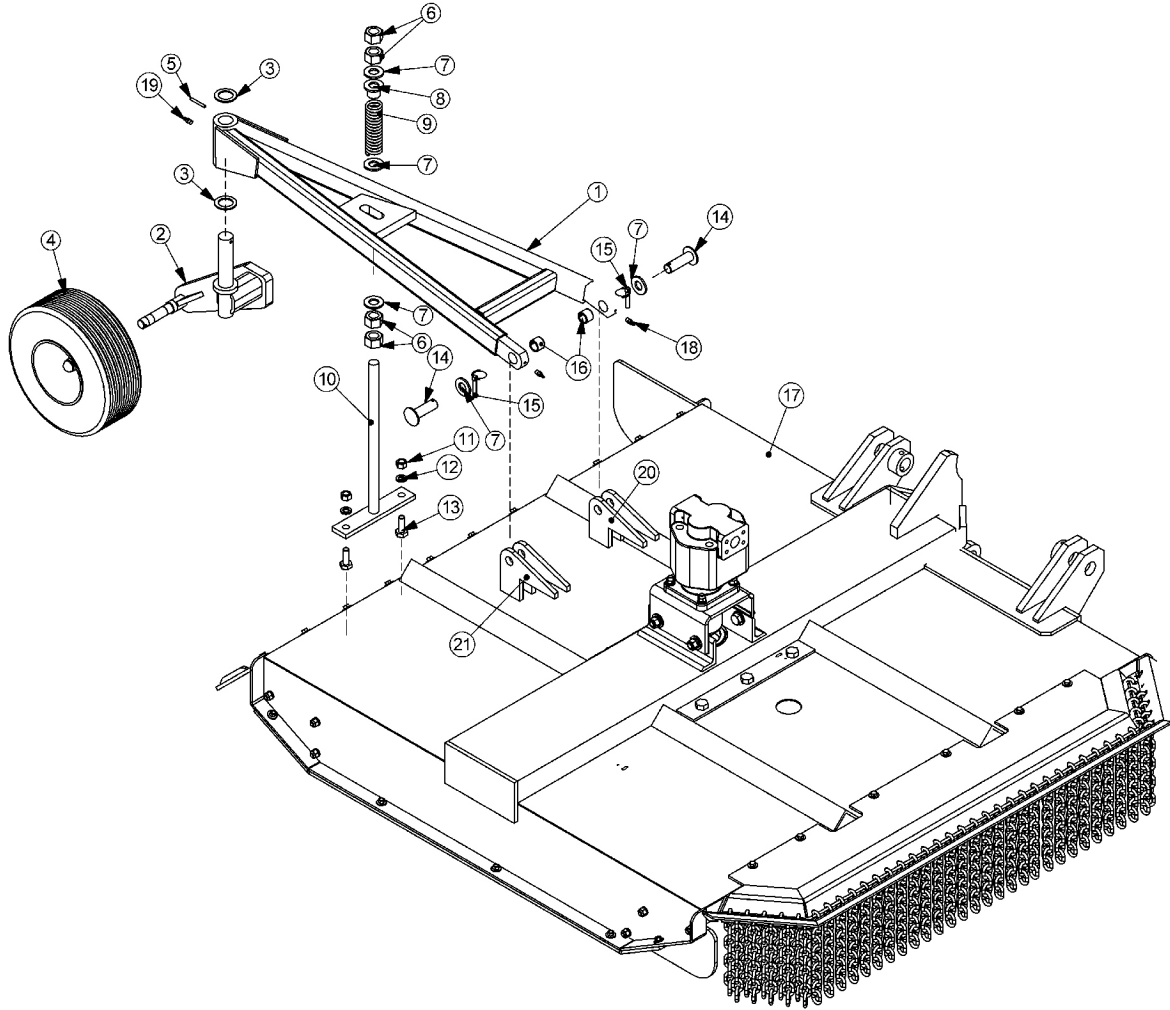
60IN SIDE TSR REAR GUARDS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 34973 | 2 | ROD,CHAIN,OUTER,TM60 |
| 2 | 34974 | 2 | ROD,CHAIN,INNER,TM60 |
| 3 | 21631 | 16 | CAPSCREW, 3/8 X 1-1/4,NC |
| 4 | 34972 | 4 | PLATE,CAP,CHAIN |
| 5 | 21625 | 30 | HEX NUT,3/8",NC |
| 6 | 21988 | 16 | LOCKWASHER, 3/8" |
| 7 | 22992 | 156 | CHAIN,10 LINK |
| 20 | 06410947 | 1 | MNT,FLAP,RH,EXT,TSR |
| 21 | 06401184 | 2 | STRAP,FLAP,EXT,TSR |
| 22 | 06410948 | 1 | COVER,FLAP,EXT,TSR |
| 23 | 21632 | 10 | CAPSCREW,3/8" X 1-1/2" NC |
| 24 | 22016 | 20 | FLATWASHER,3/8",GR8 |
| 25 | 06410946 | 1 | MNT,FLAP,LH,EXT,TSR |
| 26 | 21580 | 6 | CAPSCREW,5/16 X 1 NC |
| 27 | 22015 | 12 | FLATWASHER,5/16 |
| 28 | 21577 | 6 | NYLOCK NUT, 5/16,NC |
| 29 | 21625 | 10 | HEX NUT,3/8",NC |
| 30 | 06520331 | 2 | FLAP,EXT,TSR |

COMMON SIDE ROTARY

SIDE ROTARY CASTER WHEEL ASSEMBLY



COMMON SIDE ROTARY

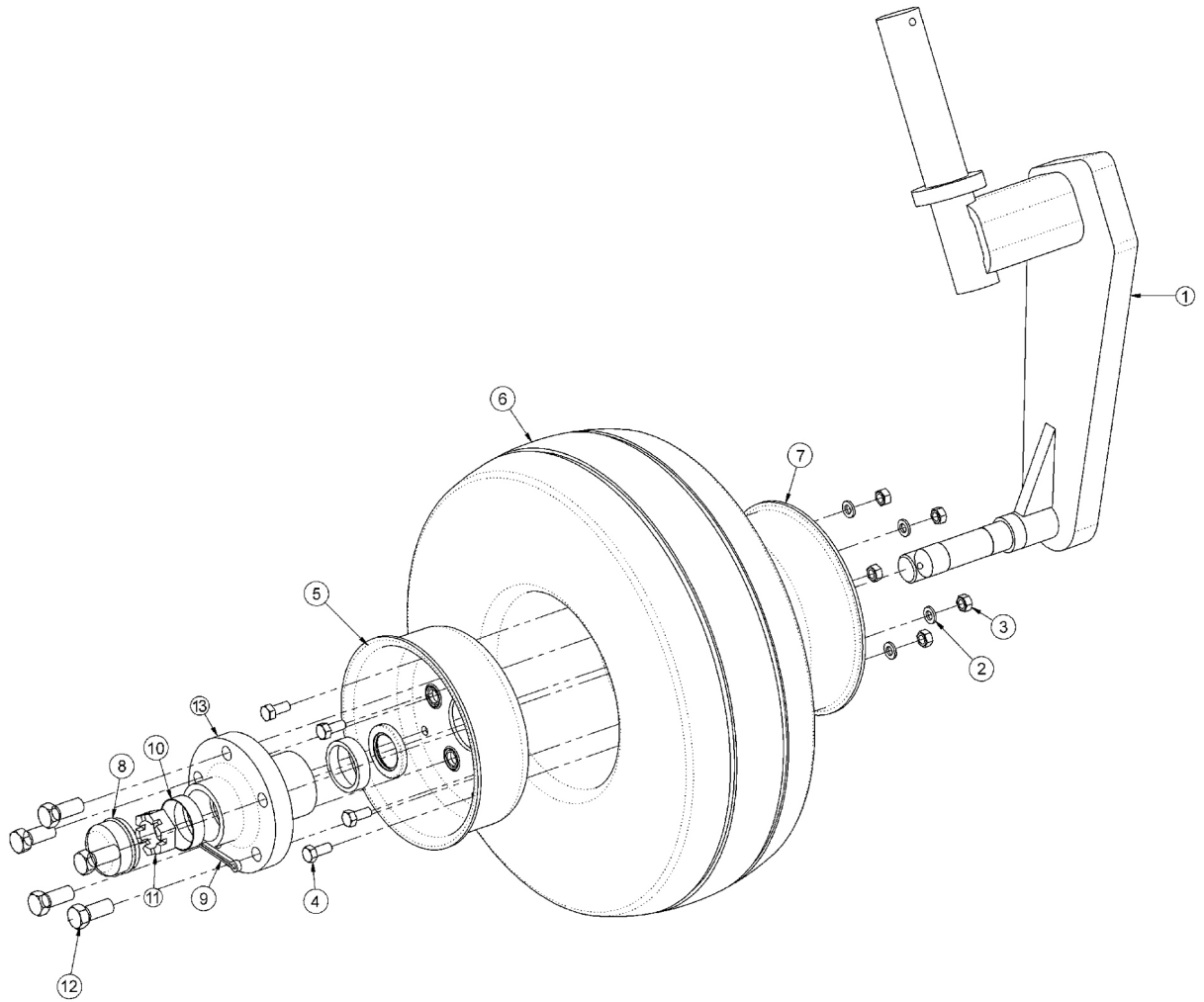
SIDE ROTARY CASTER WHEEL ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------|
| 1 | 25214C | 1 | FRAME,CASTER,WHL (TM60) |
| --- | 28297A | - | FRAME,CASTER WHL (TM72) |
| 2 | 22057 | 1 | SPINDLE,CASTER AXLE,ASSY |
| 3 | 6T2617 | 2 | BUSHING,MACH,1-1/2IDX 2-1/4OD |
| 4 | 28548 | 1 | CASTER WHEEL,SOLID TIRE |
| --- | 22065 | 1 | HUB,ASSY,CASTER |
| ---- | 22066 | 1 | HUB,CASTER |
| --- | 22070 | 1 | DUST CAP |
| ---- | 22071 | 5 | HUB STUD |
| --- | 22073 | 1 | HEX NUT,1",NF (SLOTTED) |
| ---- | 22533 | 1 | COTTER PIN,3/16" X 2" |
| --- | 6T0830 | 2 | BEARING,CONE,CASTER WHEEL |
| ---- | 6T0838 | 1 | SEAL |
| --- | 23329 | 1 | WHEEL,CPLT,SOLID TIRE |
| ---- | 21416 | 1 | TIRE,SOLID |
| --- | 22697 | 1 | RIM,OUTER |
| ---- | 22696 | 1 | RIM,CASTER |
| 5 | 6T3014 | 1 | ROLL PIN,1/4" X 2" |
| 6 | 21925 | 4 | HEX NUT,1",NC |
| 7 | 22023 | 5 | FLATWASHER,1" |
| 8 | 22753 | 1 | TUBE,PROTECTOR |
| 9 | 22058 | 1 | SPRING,REAR RTRY |
| 10 | 22059B | 1 | ADJ ROD,TRR |
| 11 | 21775 | 2 | HEX NUT,5/8" |
| 12 | 21992 | 2 | LOCKWASHER,5/8" |
| 13 | 21782 | 2 | CAPSCREW,5/8" X 1-3/4",NC |
| 14 | 22060 | 2 | CASTER FRAME PIN |
| 15 | TF1143 | 2 | PIN,LYNCH,7/16" X 2" |
| 16 | TB3010 | 2 | BUSHING,1" |
| 17 | ----- | 1 | RTRY,CPLT,TM |
| 18 | 6T3207 | 2 | GREASE ZERK,1/4" X STR |
| 19 | 6T3211 | 1 | GREASE ZERK,1/8" X STR |
| 20 | 21441 | 2 | CASTER FRAME ANCHOR (TM60) |
| --- | 42527 | 2 | CASTER FRAME ANCHOR (TM72) |
| 21 | 21442 | 2 | CASTER FRAME ANCHOR (TM60) |
| --- | 42527 | 2 | CASTER FRAME ANCHOR (TM72) |

COMMON SIDE ROTARY

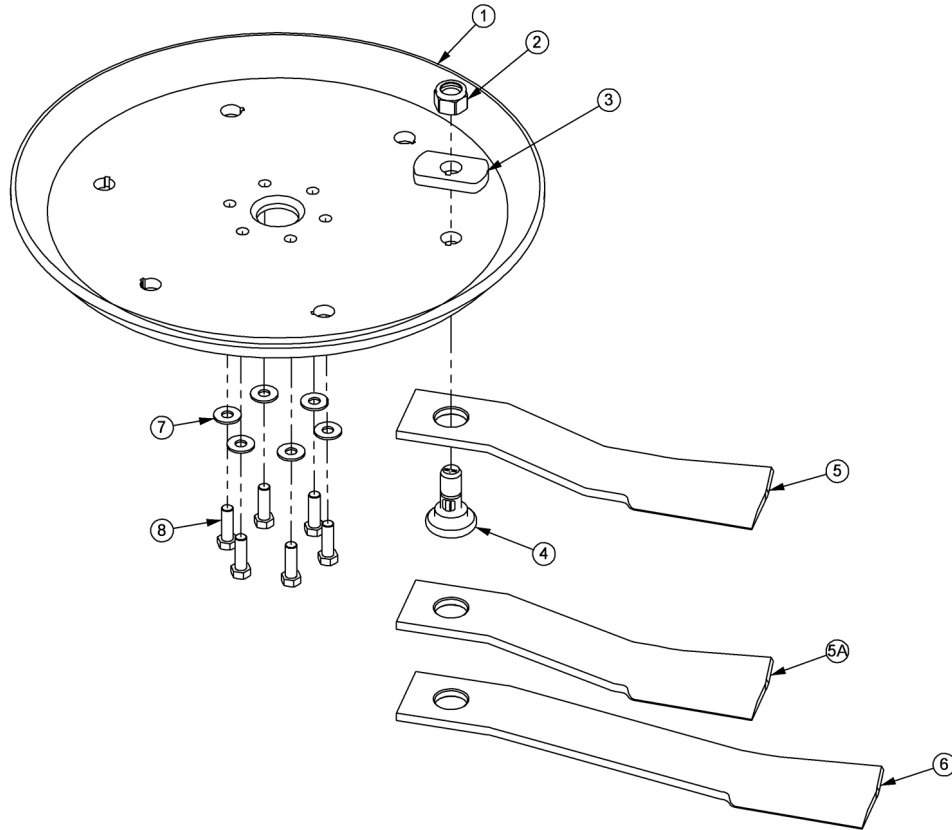
CASTER WHEEL ASSEMBLY



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------|
| 1 | 22057 | 1 | SPINDLE,CASTER AXLE,ASSY |
| 2 | 21987 | 5 | LOCKWASHER,5/16" |
| 3 | 21575 | 5 | HEX NUT,5/16" |
| 4 | 28548 | 5 | CAPSCREW,5/16" X 3/4",NC |
| 5 | 22697 | 1 | RIM,OUTER,CASTER ASSY |
| 6 | 21416 | 1 | TIRE,SOLID |
| 7 | 22696 | 1 | RIM,CASTER WHEEL |
| 8 | 22070 | 1 | DUST CAP |
| 9 | 22533 | 1 | COTTER PIN,3/16" X 2" |
| 10 | 6T0836 | 2 | CUP,CASTER WHEEL |
| 11 | 22073 | 1 | HEX NUT,1",NF (SLOTTED JAM NUT) |
| 12 | 22071 | 5 | HUB STUD |
| 13 | 22066 | 1 | HUB,CASTER WHEEL |

COMMON SIDE ROTARY

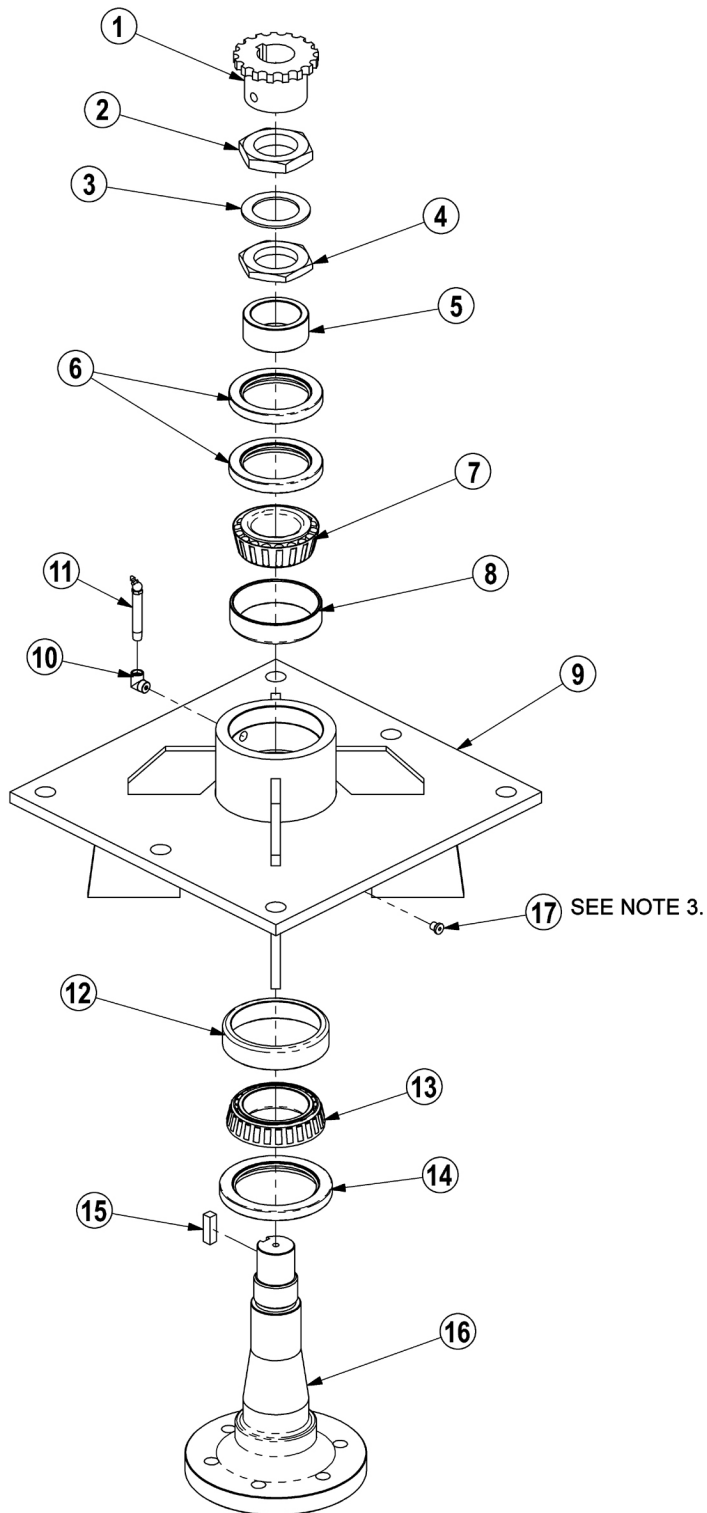
ROTARY DISK AND KNIVES



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 34876 | 1 | BLADE MOUNTING DISK |
| 2 | 6T1023R | 2 | NYLOCK NUT,1-1/8" |
| 3 | 34878 | 2 | SPACER |
| 4 | 34497 | 2 | KNIFE MOUNTING BOLT |
| 5 | 34685 | 2 | KNIFE,60" HIGH SUCTION - STANDARD |
| 5A | 34684 | 2 | KNIFE,60" - OPTIONAL |
| 6 | 34682 | 2 | KNIFE 72" (MOUNT ON 72" MOWER ONLY) |
| 7 | 25270 | 6 | FLATWASHER,5/8",USS,GR8 |
| 8 | 6T2259 | 6 | CAPSCREW,5/8" X 1-3/4",NF |
| ---- | 6T1825 | - | LOCTITE - USED ON ALL DISK MOUNTING BOLTS |
| --- | 27167 | - | BOLT KIT (INCLUDE ITEMS 7 & 8) |
| ---- | 06700002 | - | KIT,60/72,DISK,KNF MTG (INCLUDE ITEM 1, 3,7 & 8) |

COMMON SIDE ROTARY

TM MOWER SPINDLE ASSEMBLY



NOTES:

1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

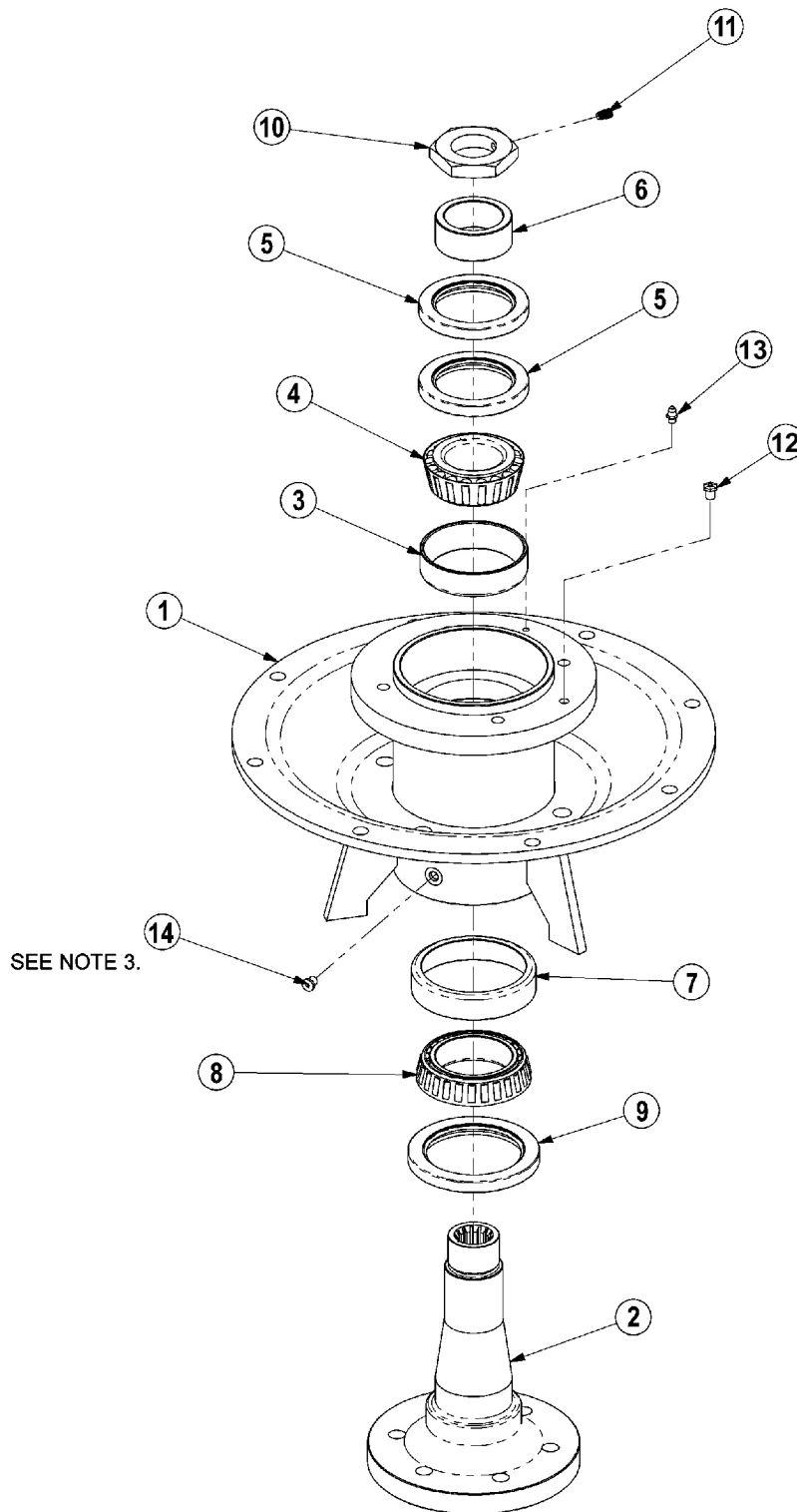
TM MOWER SPINDLE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|-----------|------|--|
| ----- | 6T1024H5 | - | SPINDLE ASSEMBLY COMPLETE |
| 1 | 6T1031 | 1 | SPROCKET |
| 2 | 6T1016 | 1 | BEARING LOCK NUT - THICK |
| 3 | 22596 | 1 | JAM WASHER |
| 4 | 6T1015 | 1 | BEARING ADJUSTMENT NUT - THIN |
| 5 | 6T1014 | 1 | BEARING ADJUSTMENT SLEEVE |
| 6 | 6T1011 | 1 | UPPER SEAL - SET OF 2 |
| 7 | 6T1012 | 1 | BEARING CONE |
| 8 | 6T1013 | 1 | BEARING CUP |
| 9 | 6T1010H | 1 | SPINDLE HOUSING |
| 10 | 30570 | 1 | FITTING STREET ELBOW |
| 11 | 33990 | 1 | GREASE ZERK |
| 12 | 6T1013H | 1 | BEARING CUP |
| 13 | 6T1012H | 1 | BEARING CONE |
| 14 | 6T1011H | 1 | LOWER SEAL |
| 15 | 6T1019 | 1 | SPINDLE KEY |
| 16 | PT1018H-5 | 1 | SPINDLE |
| 17 | 06503064 | 1 | O-RING PLUG, 1/8" |
| ----- | 31771 | - | SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15) |

COMMON SIDE ROTARY

TSR MOWER SPINDLE ASSEMBLY



NOTES:

1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

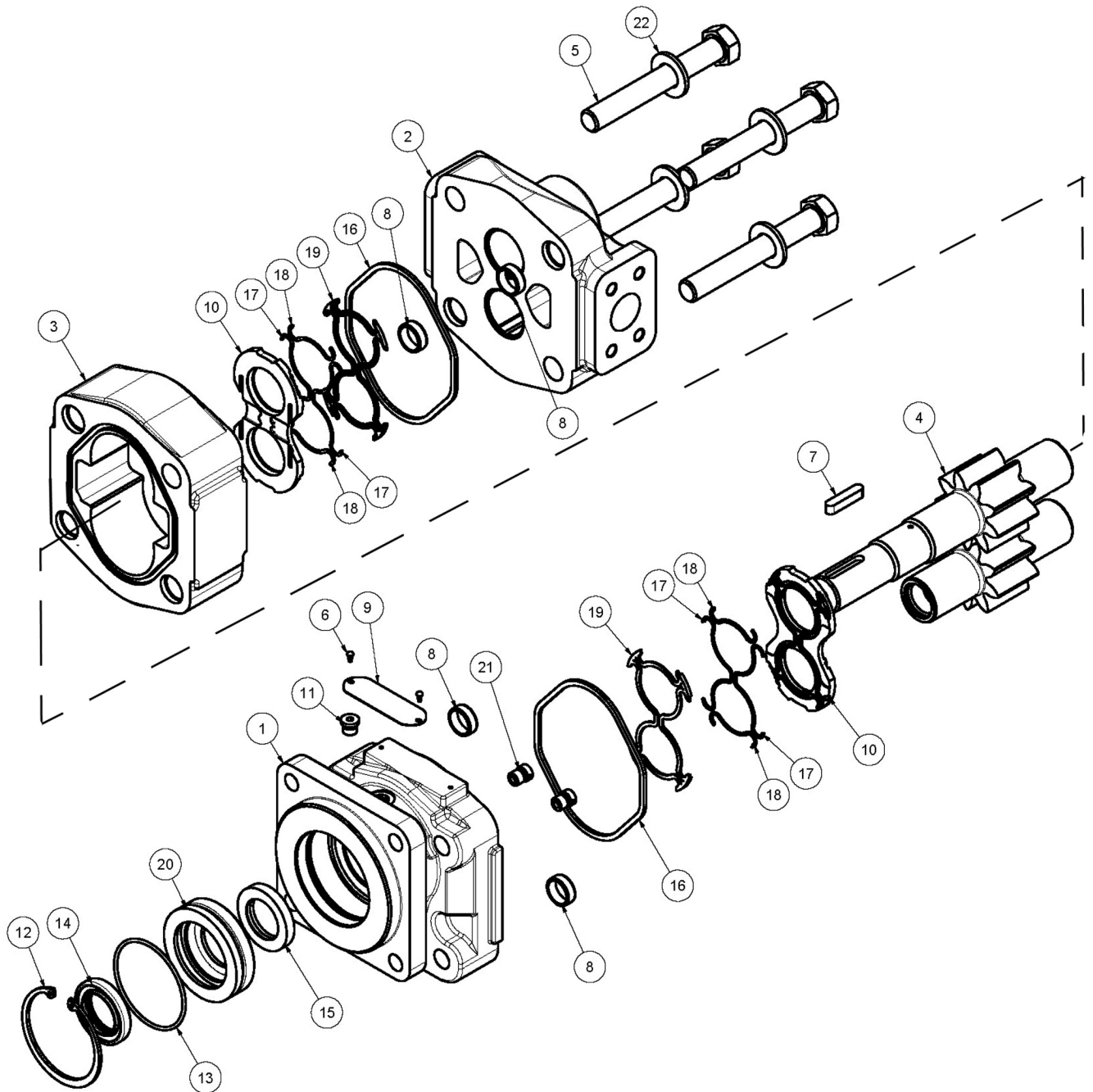
TSR MOWER SPINDLE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|---------------------------|
| ----- | 34980 | - | SPINDLE ASSEMBLY COMPLETE |
| 1 | 34978 | 1 | SPINDLE MOUNT |
| 2 | 34979 | 1 | SPINDLE,TM60 |
| 3 | 6T1013 | 1 | BEARING CUP |
| 4 | 6T1012 | 1 | BEARING CONE |
| 5 | 6T1011 | 1 | UPPER SEAL - SET OF 2 |
| 6 | 6T1014 | 1 | BEARING ADJUSTMENT SLEEVE |
| 7 | 6T1013H | 1 | BEARING,CUP,HD |
| 8 | 6T1012H | 1 | BEARING CONE,HD |
| 9 | 6T1011H | 1 | SEAL,LOWER,HD |
| 10 | 34985 | 1 | NUT W/SETSCREW |
| 11 | 6T2275 | 1 | SETSCREW,5/16" X 1/2",NC |
| 12 | 34988 | 1 | RELIEF,1PSI,1/8" NPT |
| 13 | 6T3207 | 1 | ZERK,1/4" X STR |
| 14 | 06503064 | 1 | O-RING PLUG, 1/8" |

COMMON SIDE ROTARY

ROTARY MOTOR BREAKDOWN



COMMON SIDE ROTARY

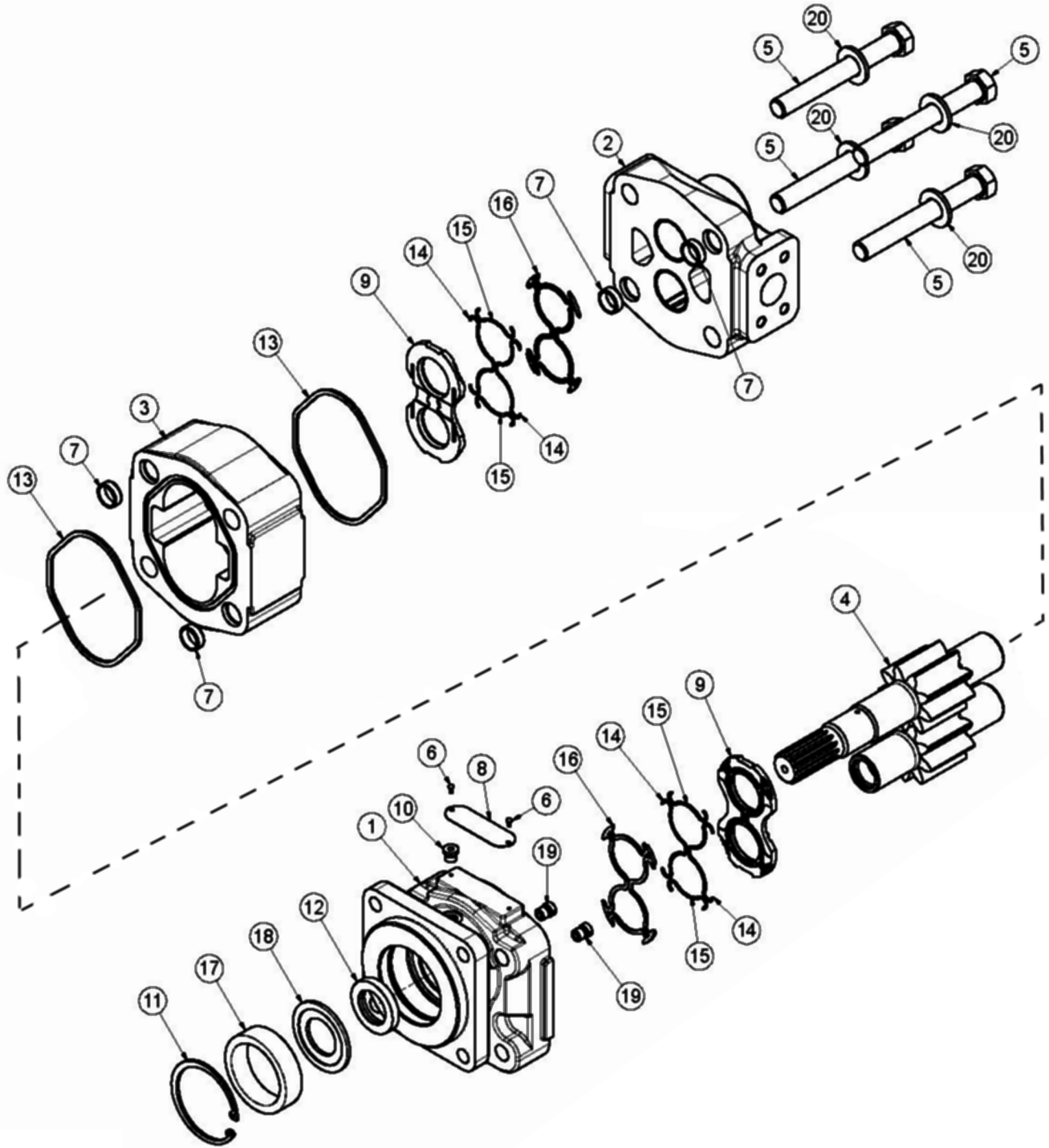
ROTARY MOTOR BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------|
| | 06504011 | - | MOTOR ASSEMBLY |
| 1 | 22790 | 1 | END,COVER |
| 2 | 06504088 | 1 | HOUSING, PEC |
| 3 | 06504111 | 1 | HOUSING, GEAR |
| 4 | 06504026 | 1 | SET, GEAR SHAFT |
| 5 | 06504104 | 4 | CAPSCREW |
| 6 | 06504078 | 2 | SCREW, DRIVE |
| 7 | 06504092 | 1 | KEY |
| 8 | 06504093 | 4 | PIN, DOWEL |
| 9 | 06504094 | 1 | NAME PLATE |
| 10 | 06504095 | 2 | THRPL |
| 11 | 2961940 | 1 | PLUG, ODT |
| 12 | 2962200 | 1 | RING, SNAP |
| 13 | 06504096 | 1 | O RING |
| 14 | 6T5101 | 1 | SEAL, LIP |
| 15 | 06504097 | 1 | SEAL, LIP |
| 16 | 22797 | 2 | SEAL, SQ-R |
| 17 | 06504098 | 4 | SEAL, SIDE CHAN |
| 18 | 06504099 | 4 | SEAL, END CHAN |
| 19 | 06504100 | 2 | SEAL, BK-UP |
| 20 | 06504101 | 1 | RTNR, SEAL |
| 21 | 6T5809 | 2 | CHECK ASS'Y |
| 22 | 06504102 | 4 | WASHER |
| --- | 06504103 | - | SEAL KIT |

COMMON SIDE ROTARY

60IN TSR ROTARY MOTOR BREAKDOWN



COMMON SIDE ROTARY

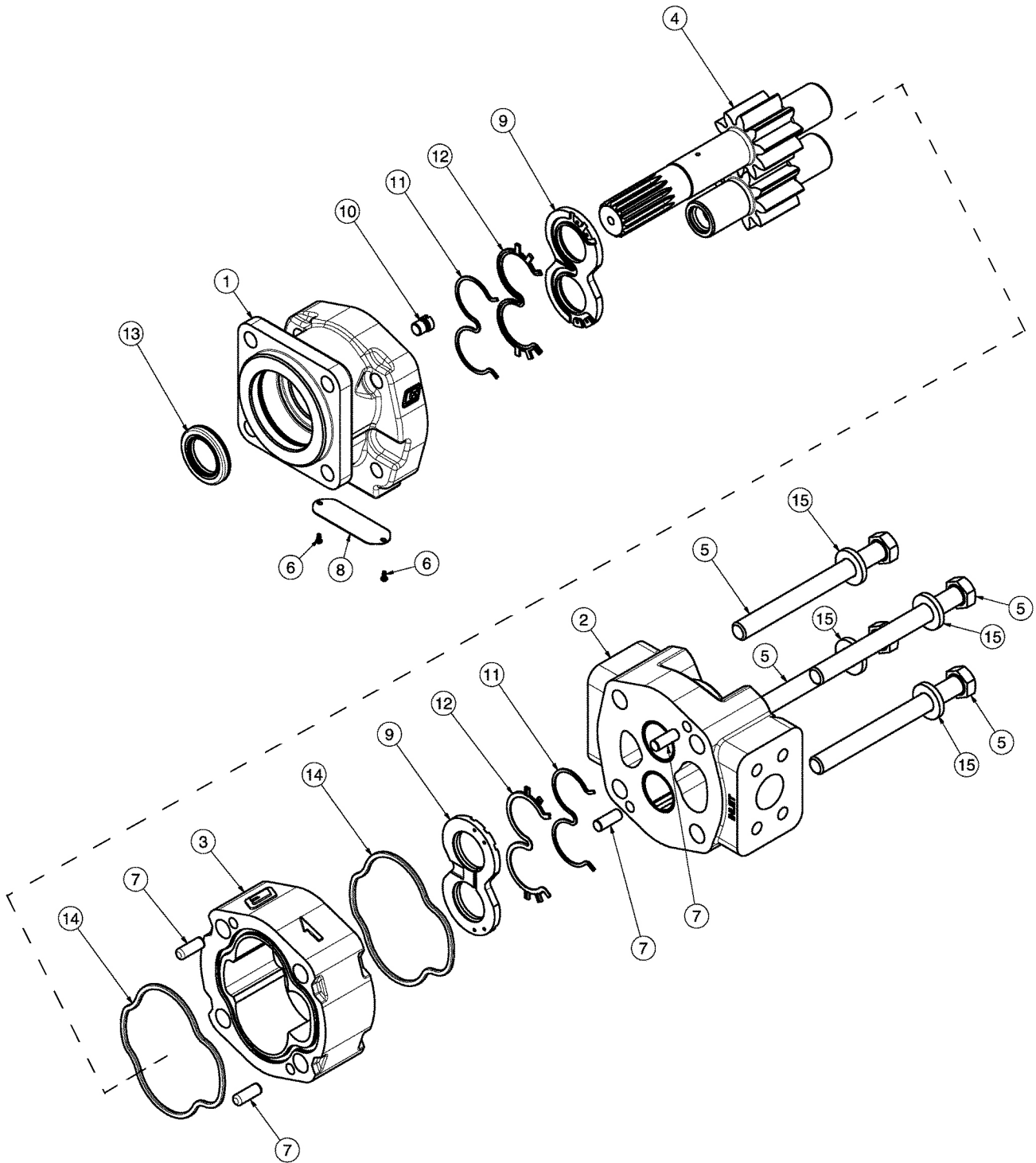
60IN TSR ROTARY MOTOR BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| | 06504016 | - | MOTOR(M365-1 1/4SPLINE),SEALED |
| 1 | 22790 | 1 | COVER,END |
| 2 | 06504088 | 1 | HOUSING,PEC |
| 3 | 06504111 | 1 | HOUSING,GEAR |
| 4 | 06504110 | 1 | SET,GEAR SHAFT |
| 5 | 06504104 | 4 | CAP SCREW |
| 6 | 06504078 | 2 | SCREW,DRIVE |
| 7 | 06504093 | 4 | PIN,DOWEL |
| 8 | 06504094 | 1 | NAME PLATE |
| 9 | 06504095 | 2 | THRPL |
| 10 | 02961940 | 1 | PLUG,ODT (0.25) |
| 11 | 6T5200 | 1 | RING,SNAP |
| 12 | 06504097 | 1 | SEAL,LIP |
| 13 | 22797 | 2 | SEAL,SQ-R |
| 14 | 06504098 | 4 | SEAL,SIDE CHAN |
| 15 | 06504099 | 4 | SEAL,END CHAN |
| 16 | 06504100 | 2 | SEAL,BK-UP |
| 17 | 06504112 | 1 | SPACER |
| 18 | 06504113 | 1 | RTNR,SEAL |
| 19 | 6T5809 | 2 | CHECK ASS'Y |
| 20 | 06504102 | 4 | WASHER |
| --- | 06504022 | 1 | SEAL KIT |

COMMON SIDE ROTARY

FRONT HYDRAULIC PUMP BREAKDOWN



COMMON SIDE ROTARY

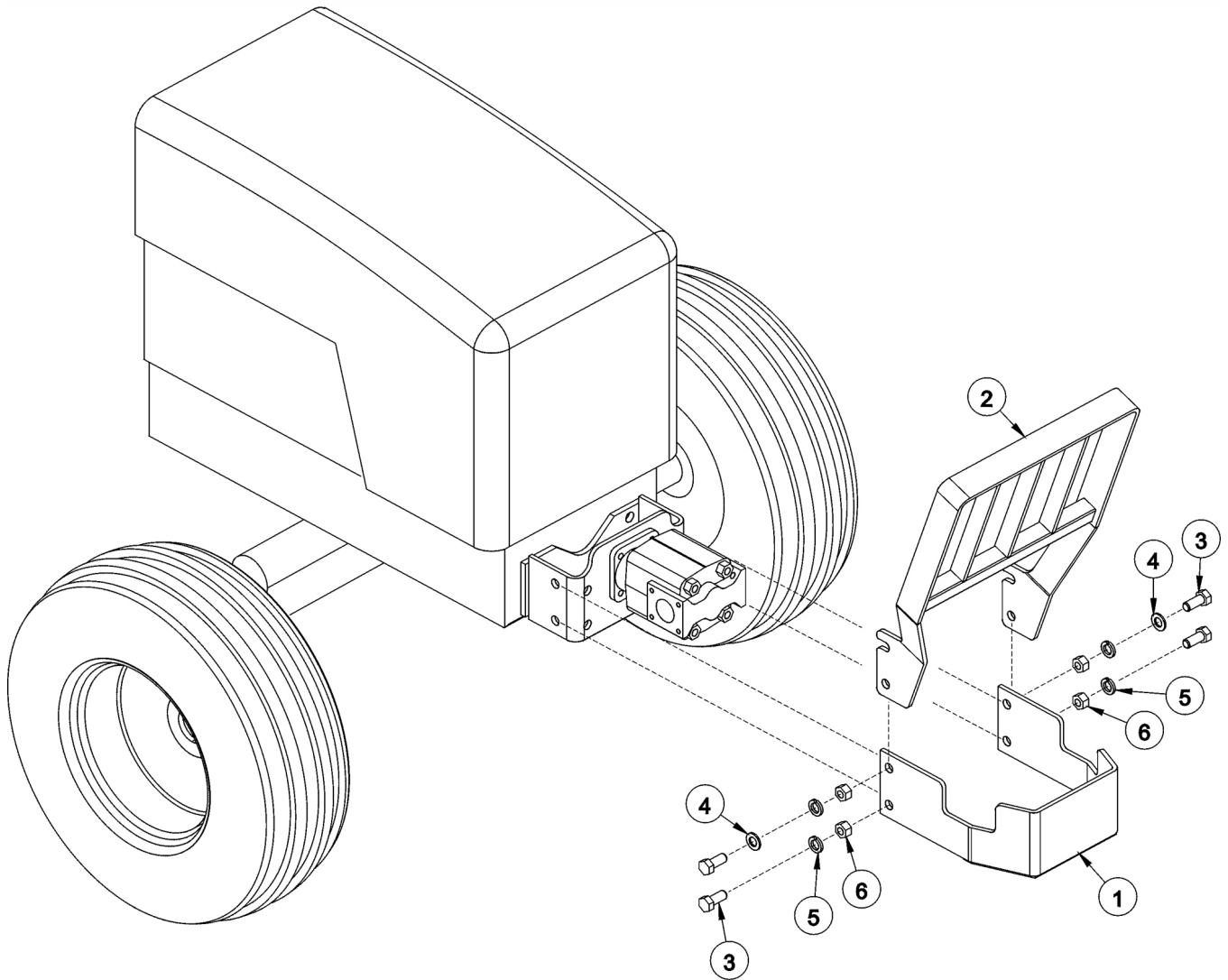
FRONT HYDRAULIC PUMP BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| --- | 23152 | 1 | PUMP ASSEMBLY,1-3/4",COMPLETE |
| 1 | 22766 | 1 | SHAFT END COVER |
| 2 | 22779 | 1 | PORT END COVER |
| 3 | 22774 | 1 | GEAR HOUSING,1-3/4" |
| 4 | 22771 | 1 | GEAR SET |
| 5 | 23824 | 4 | CAPSCREW |
| 6 | 06504078 | 2 | SCREW,DRIVE |
| 7 | 22773 | 4 | DOWEL PINS |
| 8 | 06504077 | 1 | NAMEPLATE |
| 9 | 22770 | 2 | THRUST PLATE |
| 10 | 22767 | 1 | PLUG |
| 11 | 06504075 | 2 | SEAL,BK-UP |
| 12 | 06504074 | 2 | SEAL,CHAN |
| 13 | 22765 | 1 | SEAL,LIP |
| 14 | 06504076 | 2 | SEAL,SQ-R |
| 15 | 02961917 | 4 | WASHER |
| --- | 24150 | 1 | SEAL KIT (INCLUDES 11, 12, 13 AND 14) |

COMMON SIDE ROTARY

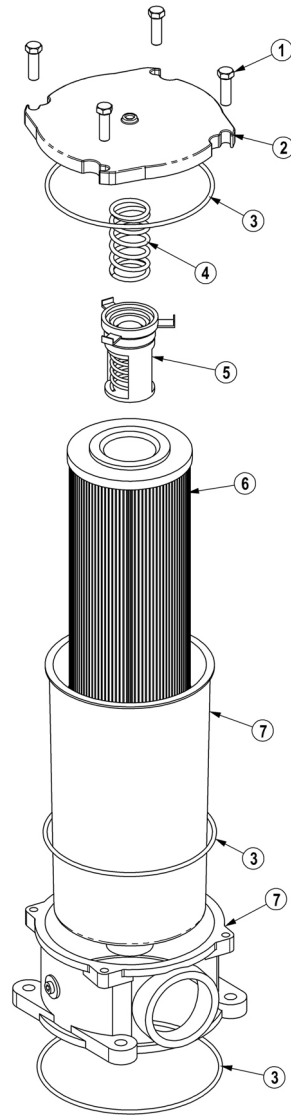
PUMP AND GRILL GUARD OPTIONS



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 32430 | 1 | UNIVERSAL PUMP GUARD |
| 2 | 32737 | 1 | UNIVERSAL GRILL GUARD |
| 3 | 21833 | 4 | CAPSCREW,3/4" X 2-1/4",NC |
| 4 | 22021 | 2 | FLATWASHER,3/4" |
| 5 | 21993 | 4 | LOCKWASHER,3/4" |
| 6 | 21825 | 4 | HEX NUT,3/4",NC |

COMMON SIDE ROTARY

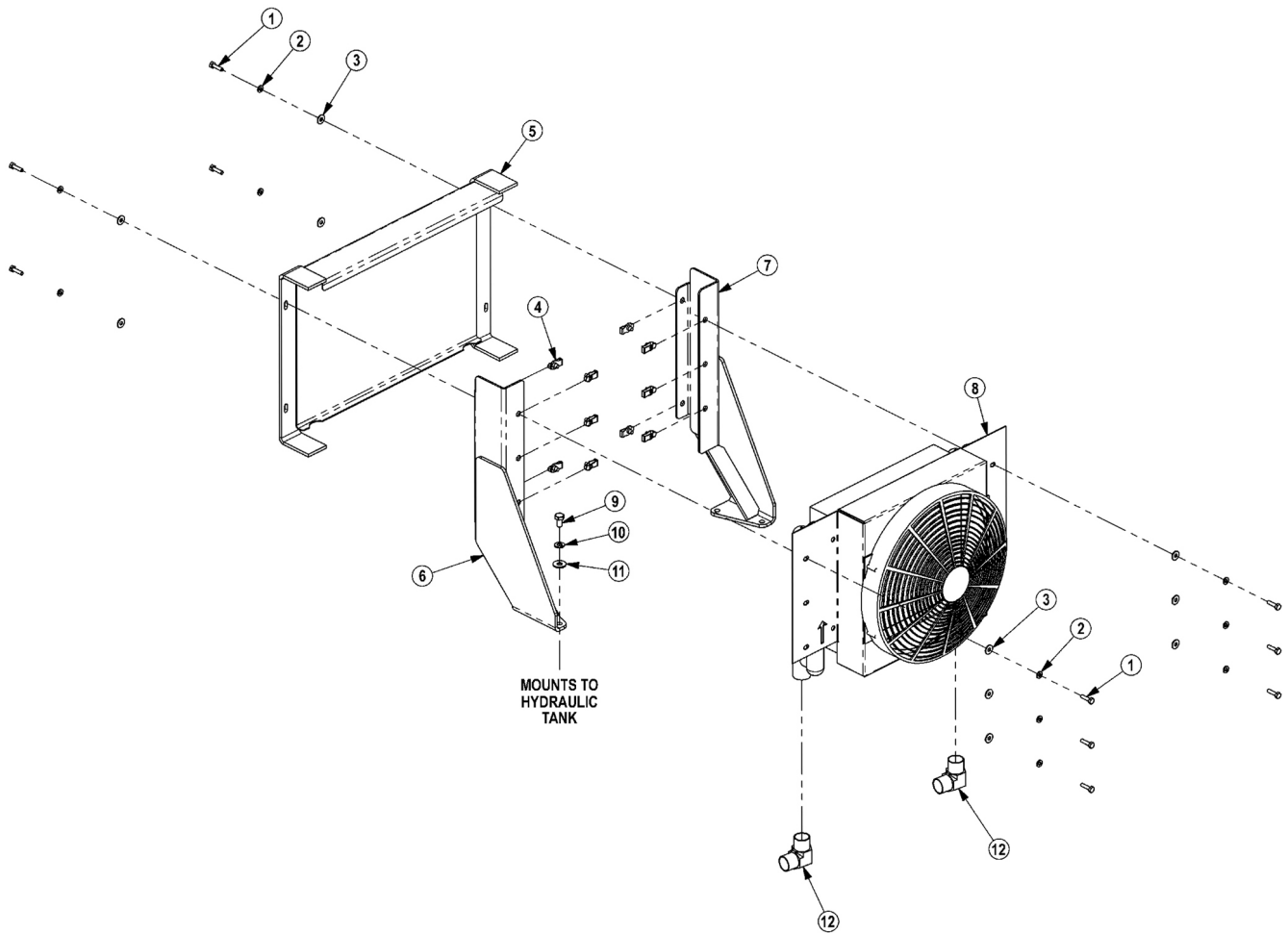
RESERVOIR TANK FILTER ASSEMBLY



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------------|
| --- | 06505044 | - | FILTER ASSY SAE 10 MICRON |
| 1 | 28583 | 4 | CAPSCREW, 8MM X 25MM(1.25 PITCH) |
| 2 | 06505045 | 1 | COVER |
| 3 | 06505046 | 1 | SEAL KIT |
| 4 | 06505047 | 1 | SPRING |
| 5 | 06505048 | 1 | BYPASS |
| 6 | 35259 | 1 | FILTER, 10 MIC, RETURN LINE |
| 7 | 06505049 | 1 | CAN/BODY |

COMMON SIDE ROTARY

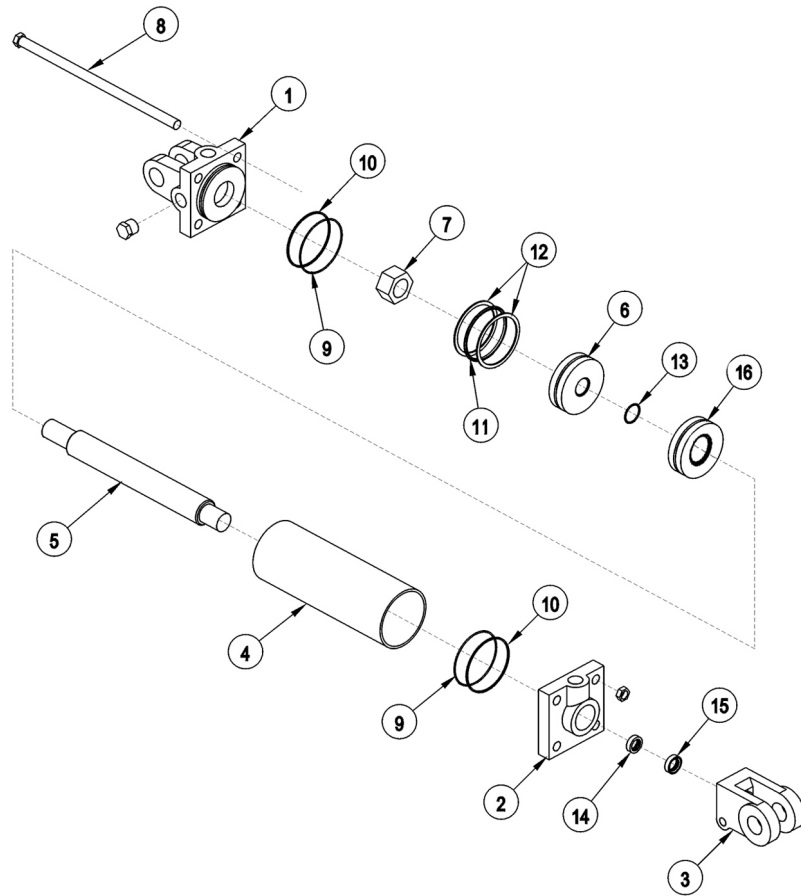
COOLER ASSEMBLY



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 21530 | 10 | CAPSCREW,1/4 X1 NC |
| 2 | 21986 | 10 | LOCKWASHER,1/4 |
| 3 | 22014 | 10 | FLATWASHER,1/4 |
| 4 | 35176 | 10 | 1/4 U-NUT |
| 5 | 06370015 | 1 | SCREEN,COOLER,FRNT |
| 6 | 06380006 | 1 | MNT,COOLER,BUMPER TANK,RH |
| 7 | 06380007 | 1 | MNT,COOLER,BUMPER TANK,LH |
| 8 | 06510026 | 1 | COOLER,FRONT MNT |
| --- | 06510029 | 1 | FAN ASSY, ONLY |
| 9 | 21629 | 4 | CAPSCREW,3/8 X 3/4 NC |
| 10 | 21988 | 4 | LOCKWASHER,3/8 |
| 11 | 22016 | 4 | FLATWASHER,3/8 |
| 12 | 34117 | 2 | ELBOW,1MOR X 1MJ90,FORGED |

COMMON SIDE ROTARY

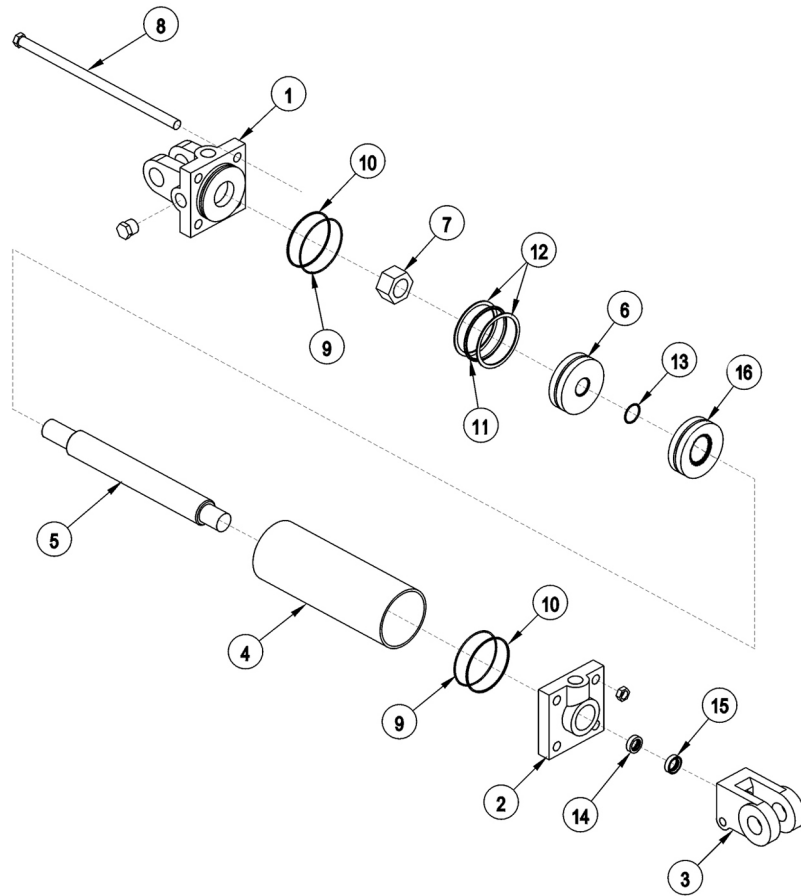
3IN X 10IN HYDRAULIC CYLINDER BREAKDOWN



| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|------------------------|
| ----- | 6T0151R | - | HYD. CYLINDER 3" X 10" |
| 1 | 6T0167 | 1 | CYLINDER BUTT |
| 2 | 6T0170 | 1 | CYLINDER GLAND |
| 3 | 6T0178 | 1 | CLEVIS END |
| 4 | 6T0164 | 1 | CYLINDER TUBE |
| 5 | 6T0161 | 1 | PISTON ROD |
| 6 | 6T0173 | 1 | PISTON |
| 7 | 6T0179 | 1 | LOCKNUT |
| 8 | 6T0176 | 4 | TIE ROD ASY |
| ----- | 6T0187 | - | SEAL KIT |
| 9 | ----- | 2 | O - RING |
| 10 | ----- | 2 | BACK - UP WASHER |
| 11 | ----- | 1 | O - RING |
| 12 | ----- | 2 | BACK - UP WASHER |
| 13 | ----- | 1 | O - RING |
| 14 | ----- | 1 | U - CUP |
| 15 | ----- | 1 | WIPER |

COMMON SIDE ROTARY

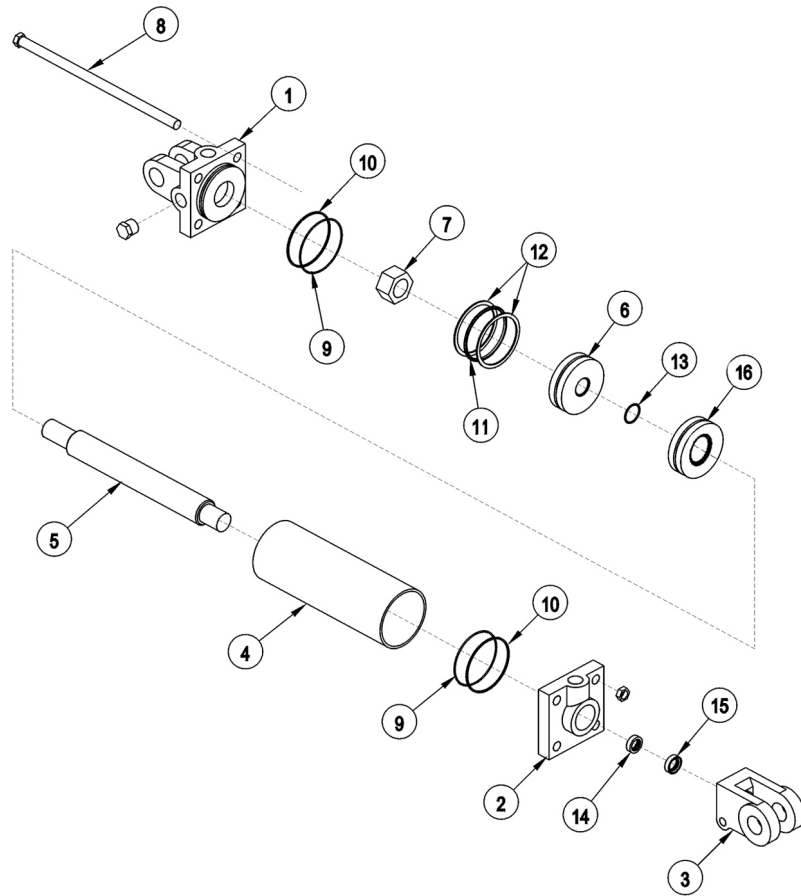
3IN X 12IN HYDRAULIC CYLINDER BREAKDOWN



| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|-----------------------------------|
| ----- | 32215 | - | HYD. CYLINDER 3" X 12" (STD DUTY) |
| ----- | 25343 | - | HYD. CYLINDER 3" X 12" (HVY DUTY) |
| 1 | 6T0167 | 1 | CYLINDER BUTT |
| 2 | 6T0170 | 1 | CYLINDER GLAND |
| 3 | 6T0178 | 1 | CLEVIS END |
| 4 | 6T0204 | 1 | CYLINDER TUBE |
| 5 | 6T0203 | 1 | PISTON ROD |
| 6 | 6T0173 | 1 | PISTON |
| 7 | 6T0179 | 1 | LOCKNUT |
| 8 | 6T0205 | 4 | TIE ROD ASY |
| ----- | 6T0187 | - | SEAL KIT |
| 9 | ----- | 2 | O - RING |
| 10 | ----- | 2 | BACK - UP WASHER |
| 11 | ----- | 1 | O - RING |
| 12 | ----- | 2 | BACK - UP WASHER |
| 13 | ----- | 1 | O - RING |
| 14 | ----- | 1 | U - CUP |
| 15 | ----- | 1 | WIPER |

COMMON SIDE ROTARY

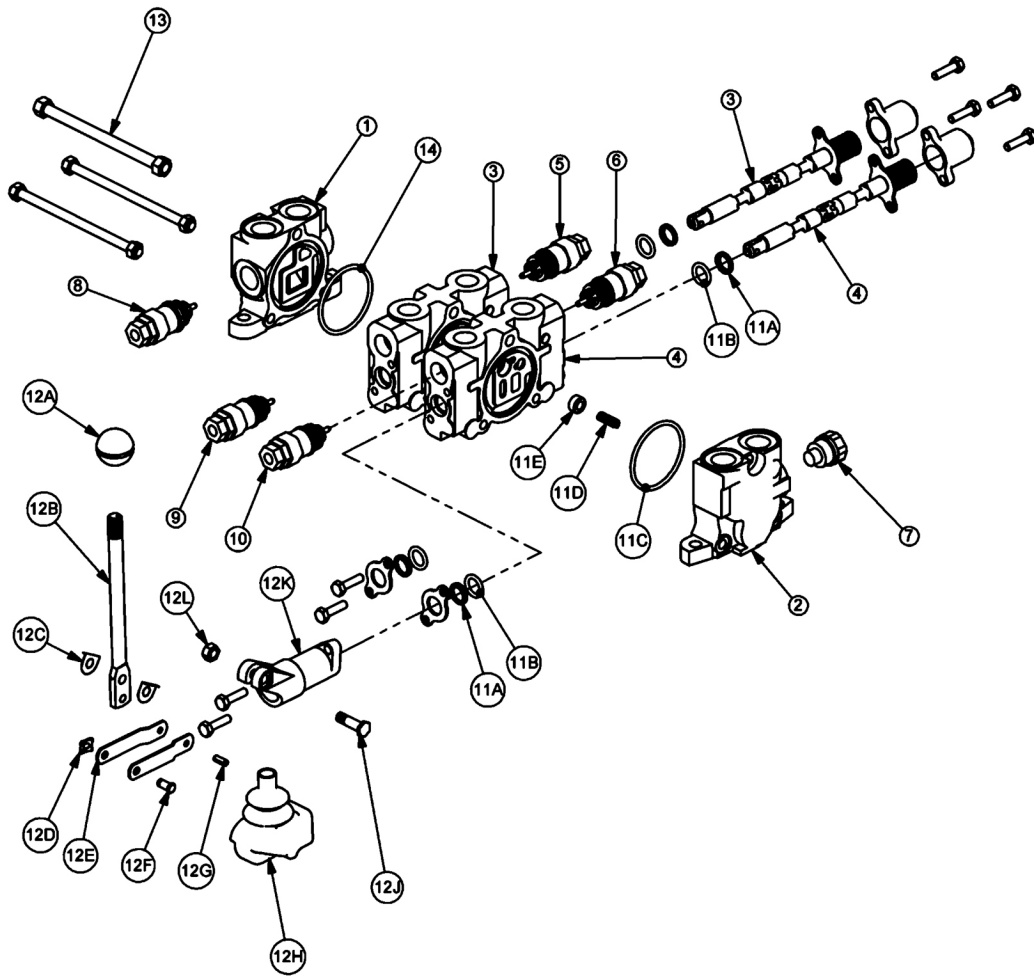
3IN X 18IN HYDRAULIC CYLINDER BREAKDOWN



| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|-------------------|
| ----- | 6T0150 | - | CYLINDER 3" X 18" |
| 1 | 6T0167 | 1 | CYLINDER BUTT |
| 2 | 6T0170 | 1 | CYLINDER GLAND |
| 3 | 6T0178 | 1 | CLEVIS END |
| 4 | 6T0165 | 1 | CYLINDER TUBE |
| 5 | 6T0162 | 1 | PISTON ROD |
| 6 | 6T0173 | 1 | PISTON |
| 7 | 6T0179 | 1 | LOCKNUT |
| 8 | 6T0177 | 4 | TIE ROD ASY |
| ----- | 6T0187 | - | SEAL KIT |
| 9 | ----- | 2 | O - RING |
| 10 | ----- | 2 | BACK - UP WASHER |
| 11 | ----- | 1 | O - RING |
| 12 | ----- | 2 | BACK - UP WASHER |
| 13 | ----- | 1 | O - RING |
| 14 | ----- | 1 | U - CUP |
| 15 | ----- | 1 | WIPER |
| 16 | 6T0206 | 1 | SPACER |

COMMON SIDE ROTARY

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 30801



COMMON SIDE ROTARY

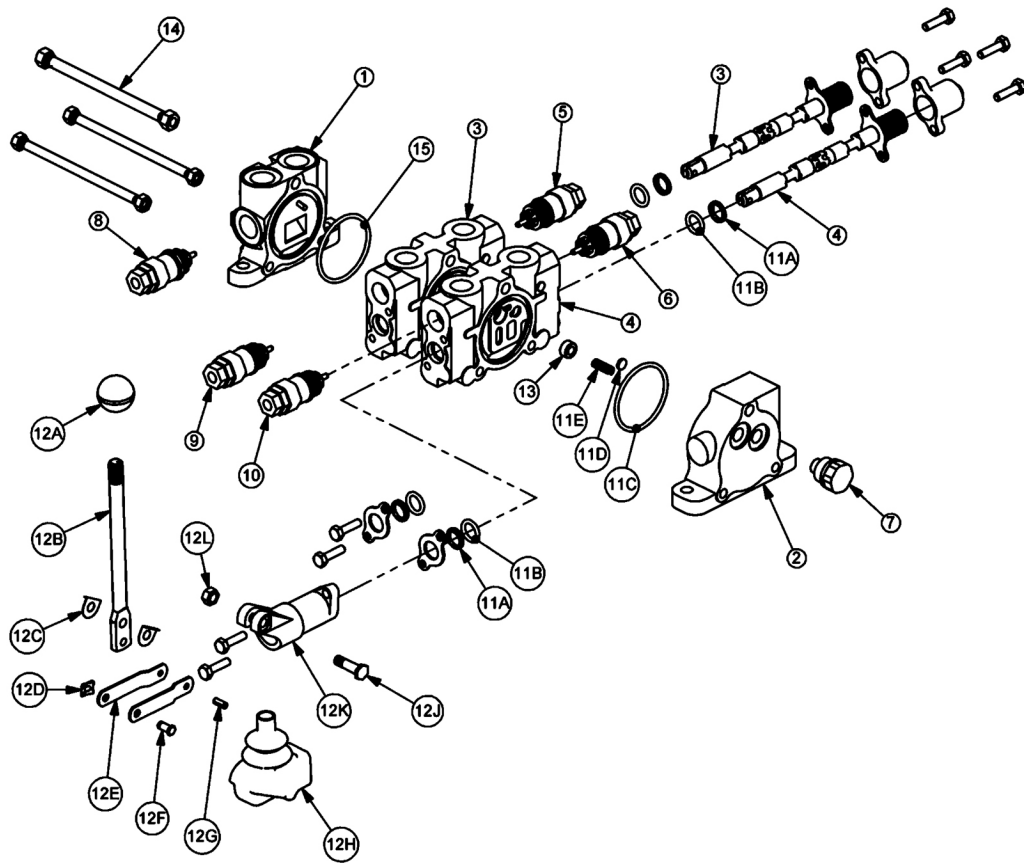
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 30801

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | TB1017S | 1 | INLET END COVER |
| 2 | TB1702 | 1 | END COVER, POWER BEYOND |
| 3 | TB1017P | 1 | VALVE SECTION (SINGLE ACTING, SPRING DETENT) |
| 4 | 06502091 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (NO AUX VALVE PORTS) |
| 5 | N/A | - | N/A |
| 6 | N/A | - | N/A |
| 7 | TB1017M | 1 | SHUT-OFF PLUG |
| 8 | TB1017E | 1 | RELIEF VALVE, 2250 PSI |
| 9 | TB1017M | 1 | SHUT-OFF PLUG |
| 10 | N/A | - | N/A |
| 11 | TB1017A | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 1 | O-RING LARGE |
| 11D | ----- | 1 | SPRING |
| 11E | ----- | 1 | PUCKET |
| 12 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 12A | ----- | 1 | LEVER KNOB |
| 12B | ----- | 1 | LEVER |
| 12C | ----- | 2 | LEVER WASHER |
| 12D | ----- | 1 | LEVER CLIP |
| 12E | ----- | 2 | LINKAGE |
| 12F | ----- | 1 | LEVER PIN |
| 12G | ----- | 1 | ROLL PIN |
| 12H | ----- | 1 | LEVER BOOT |
| 12J | ----- | 1 | LEVER BOLT |
| 12K | ----- | 1 | LEVER DUST COVER |
| 12L | ----- | 1 | LEVER NUT |
| 13 | TB1017X | 1 | TIE ROD KIT |
| 14 | 24214 | 1 | O-RING, LARGE |

COMMON SIDE ROTARY

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31320



COMMON SIDE ROTARY

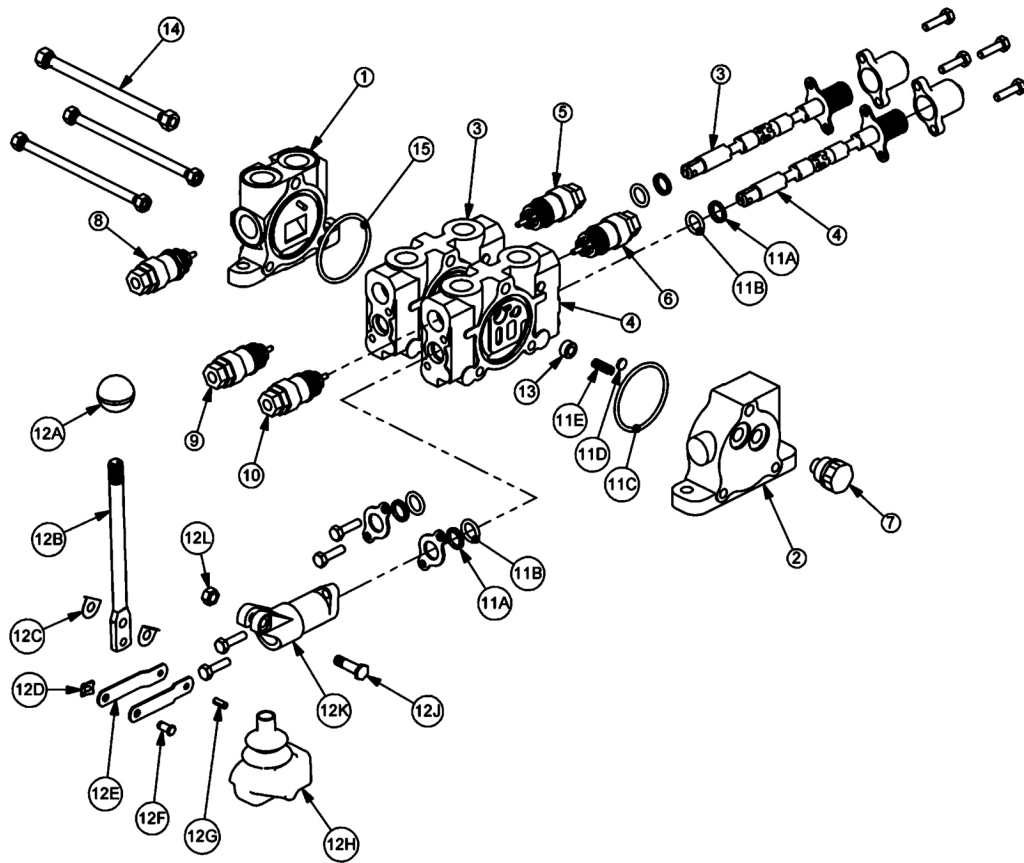
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31320

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 31595 | 1 | INLET END COVER |
| 2 | 31594 | 1 | END COVER, LOAD SENSE |
| 3 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 4 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 5 | 06503067 | 1 | RELIEF PLUG |
| 6 | 06503067 | 1 | RELIEF PLUG |
| 7 | N/A | - | N/A |
| 8 | 6T4209 | 1 | RELIEF PLUG |
| 9 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 10 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 11 | 31593 | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 1 | O-RING LARGE |
| 11D | ----- | 1 | SHUTTLE DISC |
| 11E | ----- | 1 | SPRING |
| 12 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 12A | ----- | 1 | LEVER KNOB |
| 12B | ----- | 1 | LEVER |
| 12C | ----- | 2 | LEVER WASHER |
| 12D | ----- | 1 | LEVER CLIP |
| 12E | ----- | 2 | LINKAGE |
| 12F | ----- | 1 | LEVER PIN |
| 12G | ----- | 1 | ROLL PIN |
| 12H | ----- | 1 | LEVER BOOT |
| 12J | ----- | 1 | LEVER BOLT |
| 12K | ----- | 1 | LEVER DUST COVER |
| 12L | ----- | 1 | LEVER NUT |
| 13 | 31603 | 2 | COMPENSATOR |
| 14 | TB1017X | 1 | TIE ROD KIT |
| 15 | 24214 | 1 | O-RING, LARGE |

COMMON SIDE ROTARY

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31321



COMMON SIDE ROTARY

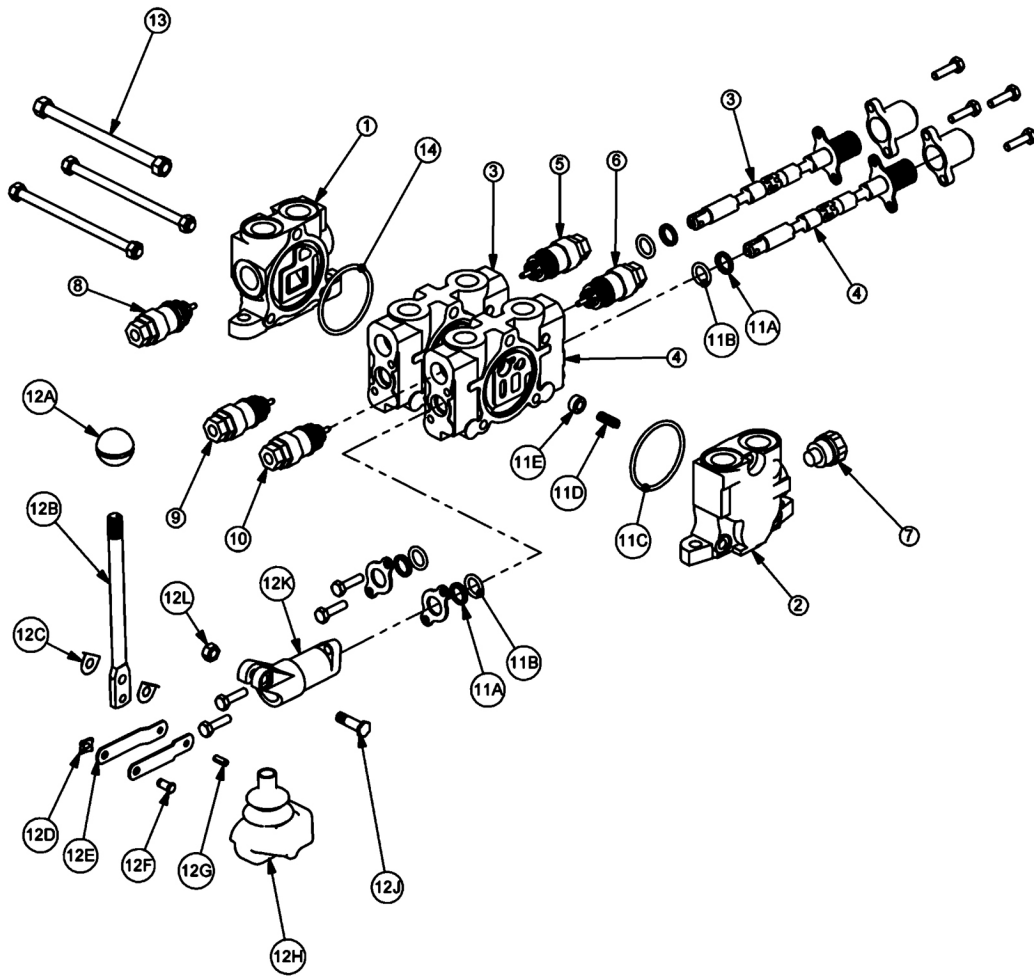
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31321

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 31595 | 1 | INLET END COVER |
| 2 | 31594 | 1 | END COVER, LOAD SENSE |
| 3 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 4 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 5 | 06503067 | 1 | RELIEF PLUG |
| 6 | 31861 | 1 | RELIEF VALVE, 360 PSI |
| 7 | N/A | - | N/A |
| 8 | 6T4209 | 1 | RELIEF PLUG |
| 9 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 10 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 11 | 31593 | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 1 | O-RING LARGE |
| 11D | ----- | 1 | SHUTTLE DISC |
| 11E | ----- | 1 | SPRING |
| 12 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 12A | ----- | 1 | LEVER KNOB |
| 12B | ----- | 1 | LEVER |
| 12C | ----- | 2 | LEVER WASHER |
| 12D | ----- | 1 | LEVER CLIP |
| 12E | ----- | 2 | LINKAGE |
| 12F | ----- | 1 | LEVER PIN |
| 12G | ----- | 1 | ROLL PIN |
| 12H | ----- | 1 | LEVER BOOT |
| 12J | ----- | 1 | LEVER BOLT |
| 12K | ----- | 1 | LEVER DUST COVER |
| 12L | ----- | 1 | LEVER NUT |
| 13 | 31603 | 2 | COMPENSATOR |
| 14 | TB1017X | 1 | TIE ROD KIT |
| 15 | 24214 | 1 | O-RING, LARGE |

COMMON SIDE ROTARY

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31752



COMMON SIDE ROTARY

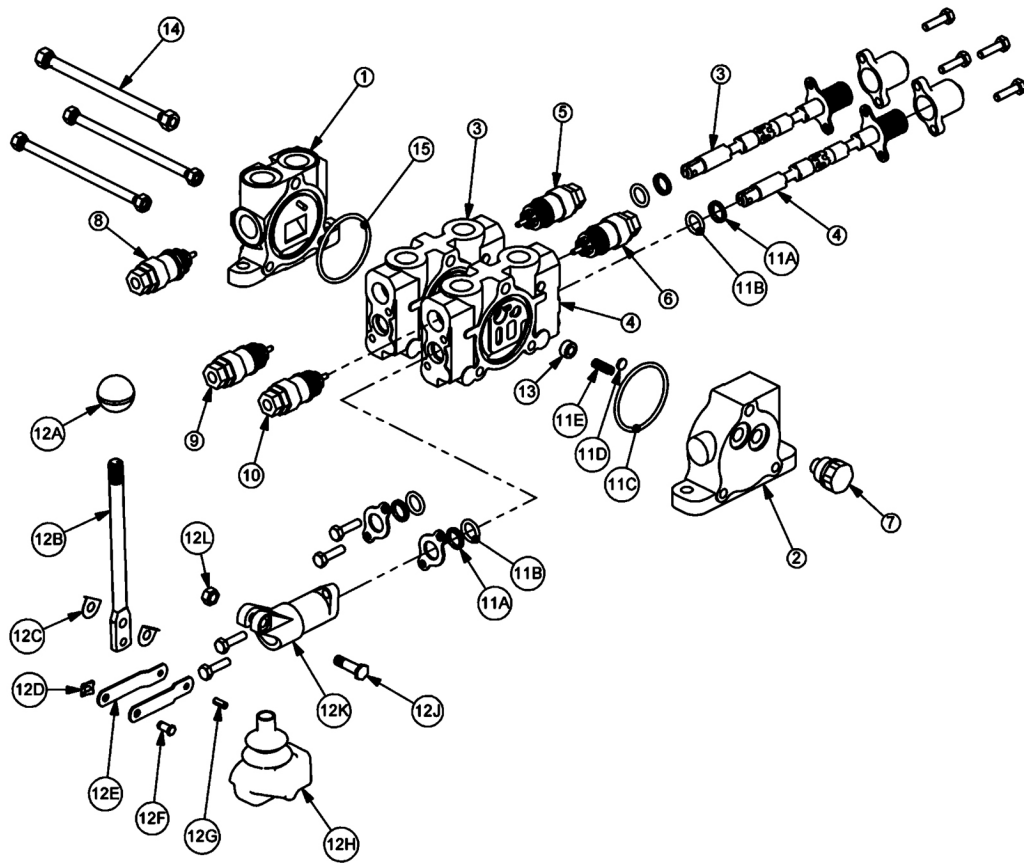
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31752

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | TB1017S | 1 | INLET END COVER |
| 2 | TB1702 | 1 | END COVER, POWER BEYOND |
| 3 | TB1017P | 1 | VALVE SECTION (SINGLE ACTING, SPRING DETENT) |
| 4 | TB1017P | 1 | VALVE SECTION (SINGLE ACTING, SPRING DETENT) |
| 5 | N/A | - | N/A |
| 6 | N/A | - | N/A |
| 7 | TB1017M | 1 | SHUT-OFF PLUG |
| 8 | TB1017E | 1 | RELIEF VALVE, 2250 PSI |
| 9 | TB1017M | 1 | SHUT-OFF PLUG |
| 10 | TB1017M | 1 | SHUT-OFF PLUG |
| 11 | TB1017A | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 1 | O-RING LARGE |
| 11D | ----- | 1 | SPRING |
| 11E | ----- | 1 | PUCKET |
| 12 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 12A | ----- | 1 | LEVER KNOB |
| 12B | ----- | 1 | LEVER |
| 12C | ----- | 2 | LEVER WASHER |
| 12D | ----- | 1 | LEVER CLIP |
| 12E | ----- | 2 | LINKAGE |
| 12F | ----- | 1 | LEVER PIN |
| 12G | ----- | 1 | ROLL PIN |
| 12H | ----- | 1 | LEVER BOOT |
| 12J | ----- | 1 | LEVER BOLT |
| 12K | ----- | 1 | LEVER DUST COVER |
| 12L | ----- | 1 | LEVER NUT |
| 13 | TB1017X | 1 | TIE ROD KIT |
| 14 | 24214 | 1 | O-RING, LARGE |

COMMON SIDE ROTARY

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502040



COMMON SIDE ROTARY

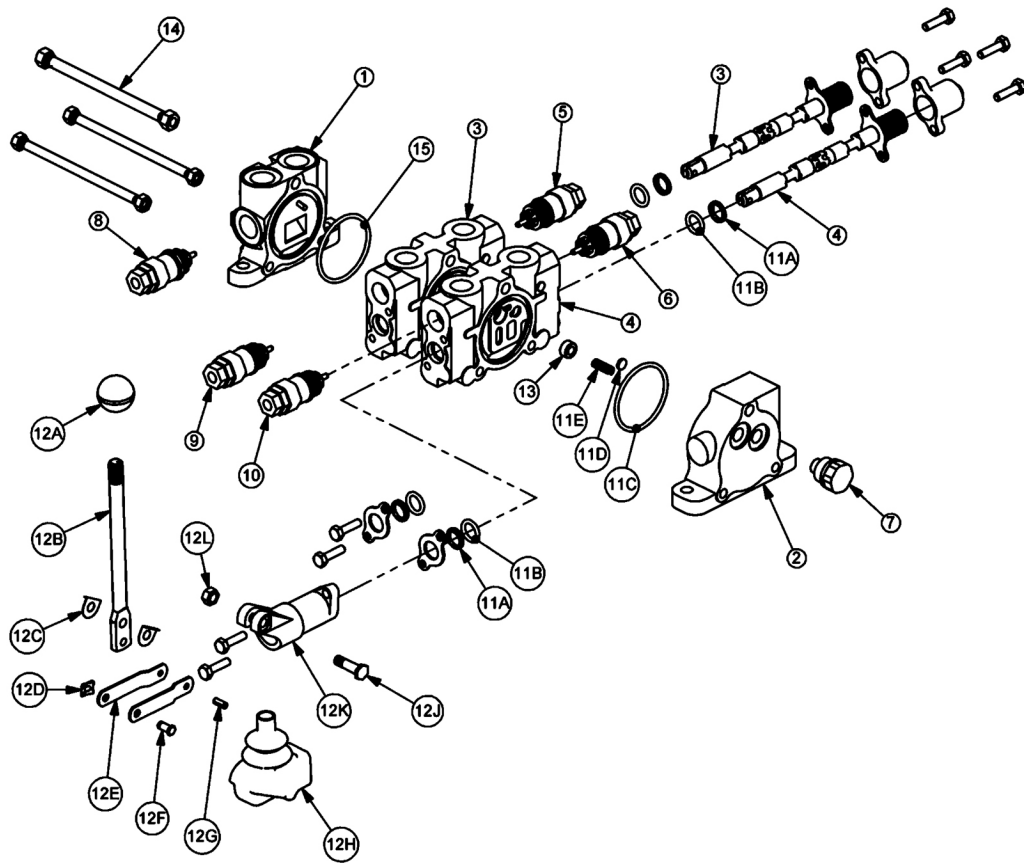
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502040

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 31595 | 1 | INLET END COVER |
| 2 | 31594 | 1 | END COVER, LOAD SENSE |
| 3 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 4 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC) |
| 5 | 06503067 | 1 | RELIEF PLUG |
| 6 | 06503067 | 1 | RELIEF PLUG |
| 7 | 06503068 | 1 | RELIEF PLUG |
| 8 | N/A | - | N/A |
| 9 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 10 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 11 | 31593 | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 1 | O-RING LARGE |
| 11D | ----- | 1 | SHUTTLE DISC |
| 11E | ----- | 1 | SPRING |
| 12 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 12A | ----- | 1 | LEVER KNOB |
| 12B | ----- | 1 | LEVER |
| 12C | ----- | 2 | LEVER WASHER |
| 12D | ----- | 1 | LEVER CLIP |
| 12E | ----- | 2 | LINKAGE |
| 12F | ----- | 1 | LEVER PIN |
| 12G | ----- | 1 | ROLL PIN |
| 12H | ----- | 1 | LEVER BOOT |
| 12J | ----- | 1 | LEVER BOLT |
| 12K | ----- | 1 | LEVER DUST COVER |
| 12L | ----- | 1 | LEVER NUT |
| 13 | 31603 | 2 | COMPENSATOR |
| 14 | TB1017X | 1 | TIE ROD KIT |
| 15 | 24214 | 1 | O-RING, LARGE |

COMMON SIDE ROTARY

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502041



COMMON SIDE ROTARY

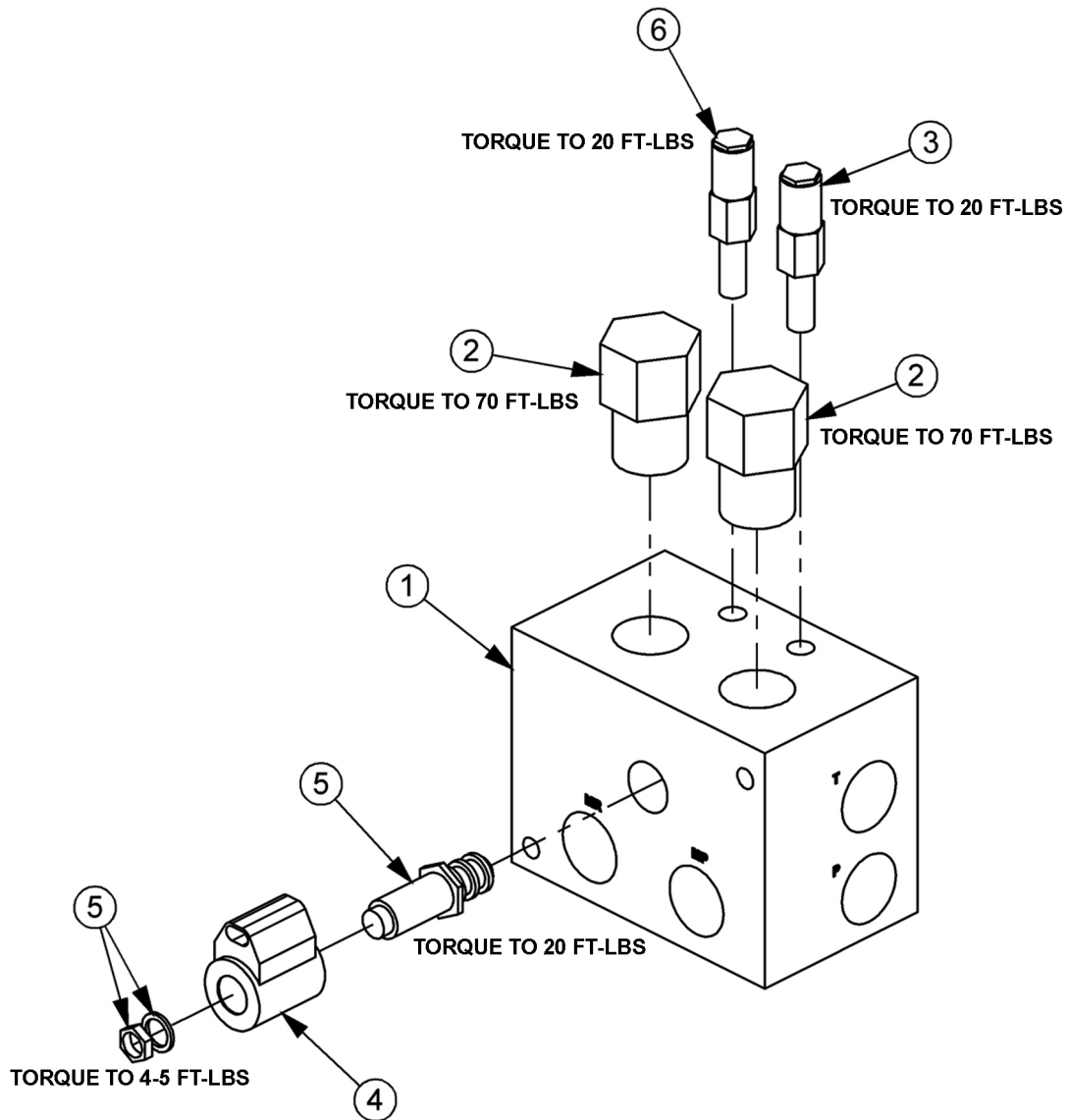
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502041

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 31595 | 1 | INLET END COVER |
| 2 | 31594 | 1 | END COVER, LOAD SENSE |
| 3 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 4 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 5 | 06503067 | 1 | RELIEF PLUG |
| 6 | 31861 | 1 | RELIEF VALVE, 360 PSI |
| 7 | 06503068 | 1 | RELIEF PLUG |
| 8 | 6T4209 | 1 | RELIEF PLUG |
| 9 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 10 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 11 | 31593 | 2 | VALVE SEAL KIT (FOR ONE SECTION) |
| 11A | ----- | 2 | WIPER |
| 11B | ----- | 2 | O-RING SMALL |
| 11C | ----- | 1 | O-RING LARGE |
| 11D | ----- | 1 | SHUTTLE DISC |
| 11E | ----- | 1 | SPRING |
| 12 | TB1017L | 2 | LEVER KIT (FOR ONE SECTION) |
| 12A | ----- | 1 | LEVER KNOB |
| 12B | ----- | 1 | LEVER |
| 12C | ----- | 2 | LEVER WASHER |
| 12D | ----- | 1 | LEVER CLIP |
| 12E | ----- | 2 | LINKAGE |
| 12F | ----- | 1 | LEVER PIN |
| 12G | ----- | 1 | ROLL PIN |
| 12H | ----- | 1 | LEVER BOOT |
| 12J | ----- | 1 | LEVER BOLT |
| 12K | ----- | 1 | LEVER DUST COVER |
| 12L | ----- | 1 | LEVER NUT |
| 13 | 31603 | 2 | COMPENSATOR |
| 14 | TB1017X | 1 | TIE ROD KIT |
| 15 | 24214 | 1 | O-RING, LARGE |

COMMON SIDE ROTARY

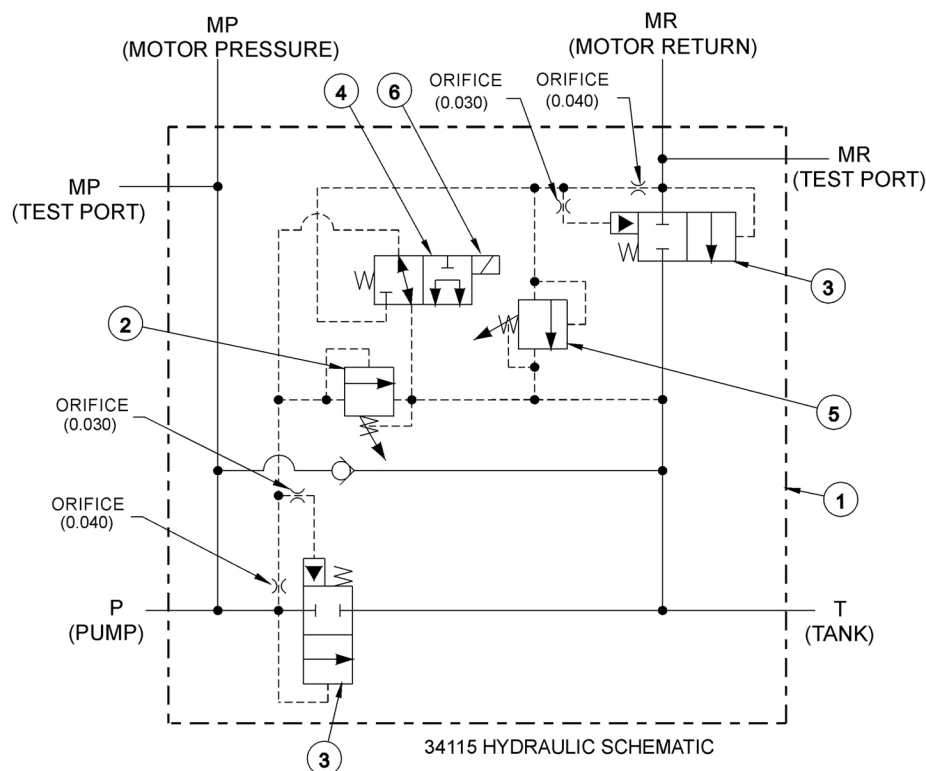
BRAKE VALVE ASSEMBLY



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| --- | 06510083 | 1 | BRAKE VALVE, ASSY |
| 1 | 34092 | 1 | BRAKE VALVE, BLANK |
| 2 | 34094 | 2 | LOGIC ELEMENT |
| 3 | 34095 | 1 | RELIEF VALVE, 3000 PSI |
| 4 | 06510095 | 1 | METRI PAK COIL |
| 5 | 34093 | 1 | CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER) |
| 6 | 34091 | 1 | RELIEF VALVE, 2600 PSI |
| --- | 34096 | 2 | RELIEF SEAL KIT |
| ---- | 34097 | 1 | SOLENOID SEAL KIT |
| --- | 34098 | 2 | ELEMENT SEAL KIT |

COMMON SIDE ROTARY

BRAKE VALVE HYDRAULIC SCHEMATIC



BRAKE VALVE TROUBLESHOOTING

FAILURE MODE:

- MOWER WILL NOT START - system pressure is low (engine not lugging).
- MOWER WILL NOT START - system pressure is high (engine lugging). "MR" port will be high pressure.
- MOWER WILL NOT ROTATE AT FULL SPEED - limited power.
- MOWER BLADE WILL NOT STOP - blade will not stop in proper time.

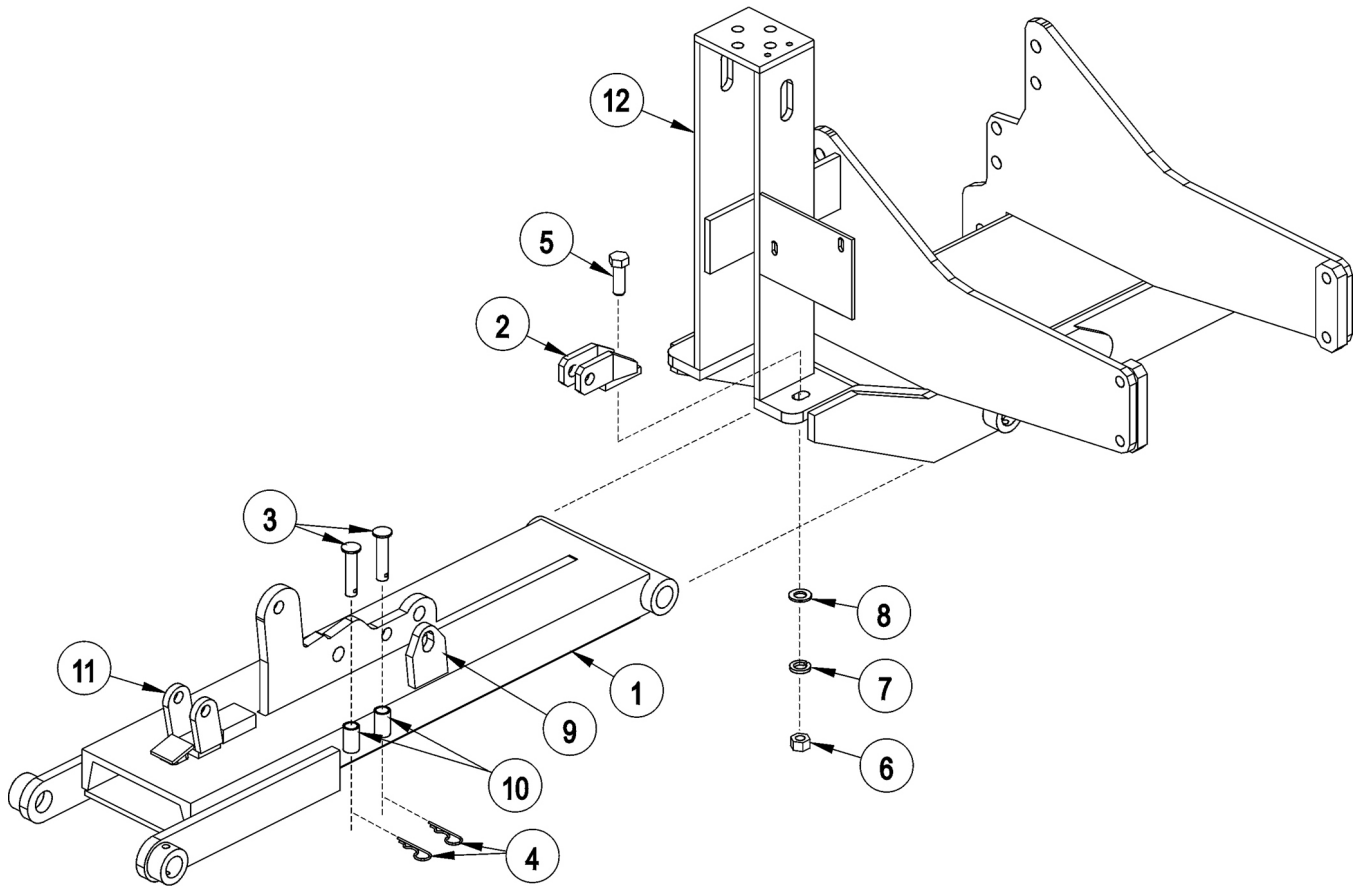
CHECK STEPS

- 1 thru 6
- 7
- 3 thru 5
- 7 thru 9

CORRECTIVE STEPS:

1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3000 psi relief valve (item 2) for wear or contamination.
5. Remove and inspect orifices near "P" port for contamination.
6. Remove "P" port hose and fitting, visually inspect for contamination, check ball for movement.
7. Remove and inspect orifices near "MR" port for contamination.
8. Remove, inspect 2600 psi relief valve (item 5) for wear of contamination.
9. Remove, inspect logic element near "MR" port (item 3) for wear or contamination.

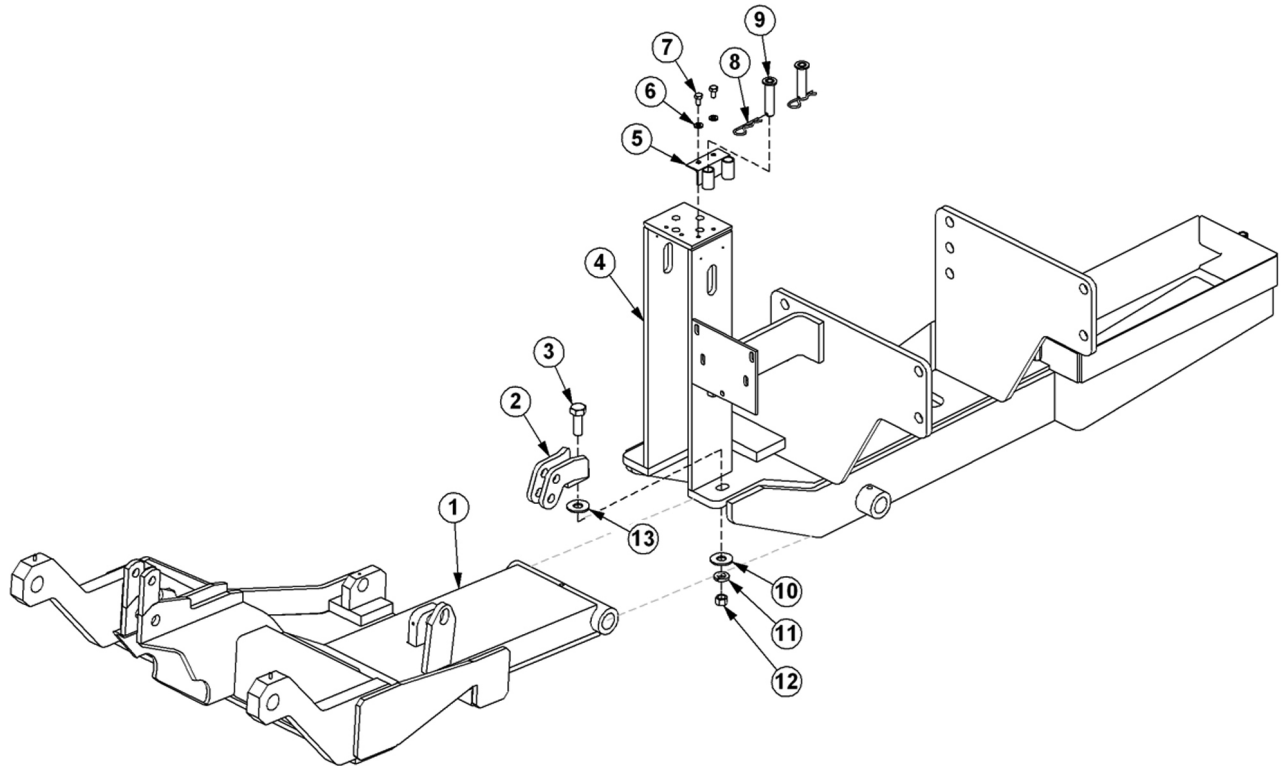
CABLE DRAFT BEAM TRAVEL LOCK



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------------|
| 1 | ----- | - | CABLE DRAFT BEAM |
| 2 | 6T0106 | 1 | TRAVEL LOCK BRACKET |
| 3 | 6T0107 | 2 | TRAVEL LOCK PINS 3/4" X 3 1/4" |
| 4 | 6T3020 | 2 | R - CLIP 5/32" |
| 5 | 21833 | 1 | CAPSCREW 3/4" X 2 1/4" |
| 6 | 21825 | 1 | HEX NUT 3/4" |
| 7 | 21993 | 1 | LOCK WASHER 3/4" |
| 8 | 22021 | 1 | FLAT WASHER 3/4" |
| 9 | 22600 | 1 | TRAVEL LOCK EAR |
| 10 | 22604 | 2 | PIN HOLDER |
| 11 | 22601C | 1 | TRAVEL LOCK ASY |
| 12 | ----- | - | MAIN FRAME *REFER TO PARTS SECTION |

COMMON SIDE ROTARY

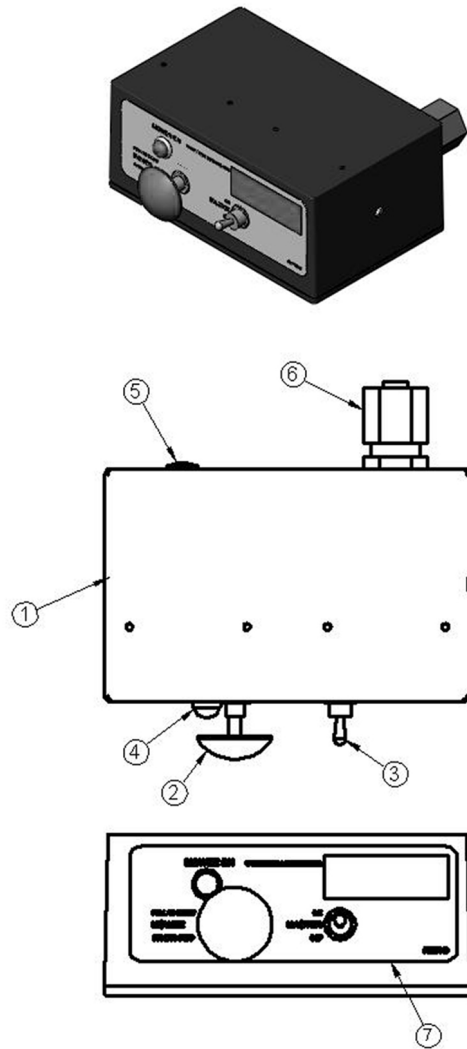
COMBO DRAFT BEAM TRAVEL LOCK



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------------|
| 1 | ----- | - | COMBO DRAFT BEAM |
| 2 | 6T0106 | 1 | TRAVEL LOCK BRACKET |
| 3 | 21835 | 1 | CAPSCREW, 3/4" X 2-3/4", NC |
| 4 | ----- | - | MAIN FRAME *REFER TO PARTS SECTION |
| 5 | 33856 | 1 | BRKT, PIN HOLDER |
| 6 | 21988 | 2 | LOCKWASHER, 3/8" |
| 7 | 21629 | 2 | CAPSCREW, 3/8" X 3/4", NC |
| 8 | 6T3020 | 2 | R-CLIP, 5/32" |
| 9 | 6T0107 | 2 | TRAVEL LOCK PINS, 3/4" X 3-1/4" |
| 10 | 22021 | 1 | FLATWASHER, 3/4" |
| 11 | 21993 | 1 | LOCKWASHER, 3/4" |
| 12 | 21825 | 1 | HEX NUT, 3/4", NC |
| 13 | 06430147 | 1 | SPACER |

COMMON SIDE ROTARY

SWITCH BOX

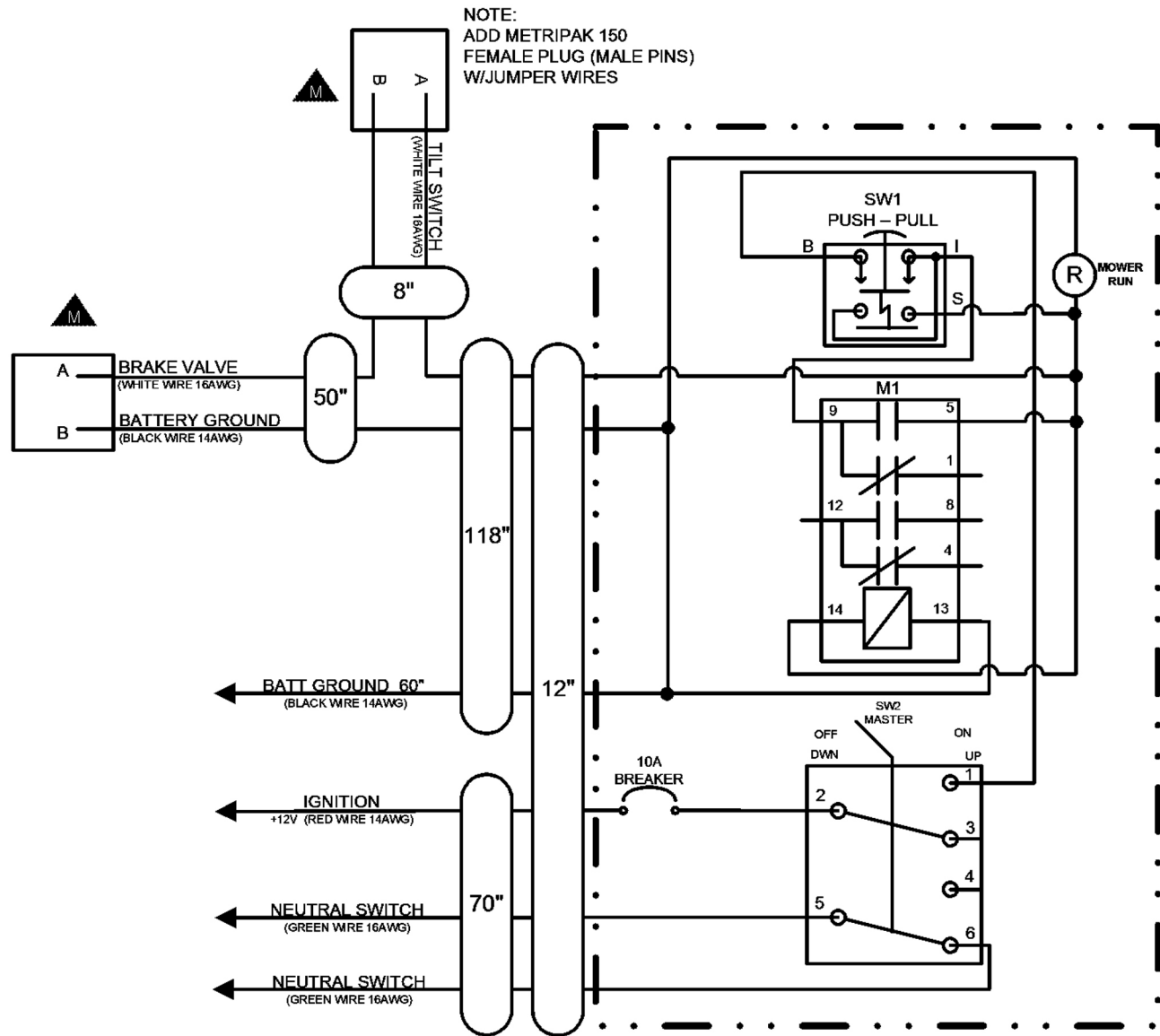


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------|
| 1 | 06514013 | 1 | SWBX,ALUM,BLK,06510102 |
| 2 | 35226 | 1 | SWITCH,MOWER,COLEHERSEE |
| 3 | 33811 | 1 | SWITCH,MASTER/DECK FLOAT |
| 4 | 6T3923 | 1 | INDICTATOR LIGHT,ON,RED |
| 5 | 06514014 | 1 | BREAKER,10A,SWBX |
| 6 | 34540 | 1 | STRAIN RELIEF,3/4,BLACK,NYLON |
| 7 | 06550018 | 1 | DECAL,SWTCHBX,TM/TSF,CG |
| 8 | 35227 | 1 | RELAY,DP,DT,12V,LY2F,35226 |

COMMON SIDE ROTARY

SWITCH BOX SCHEMATIC

06510102 SCHEMATIC COMMON GROUND SWITCH BOX SIDE MOWER

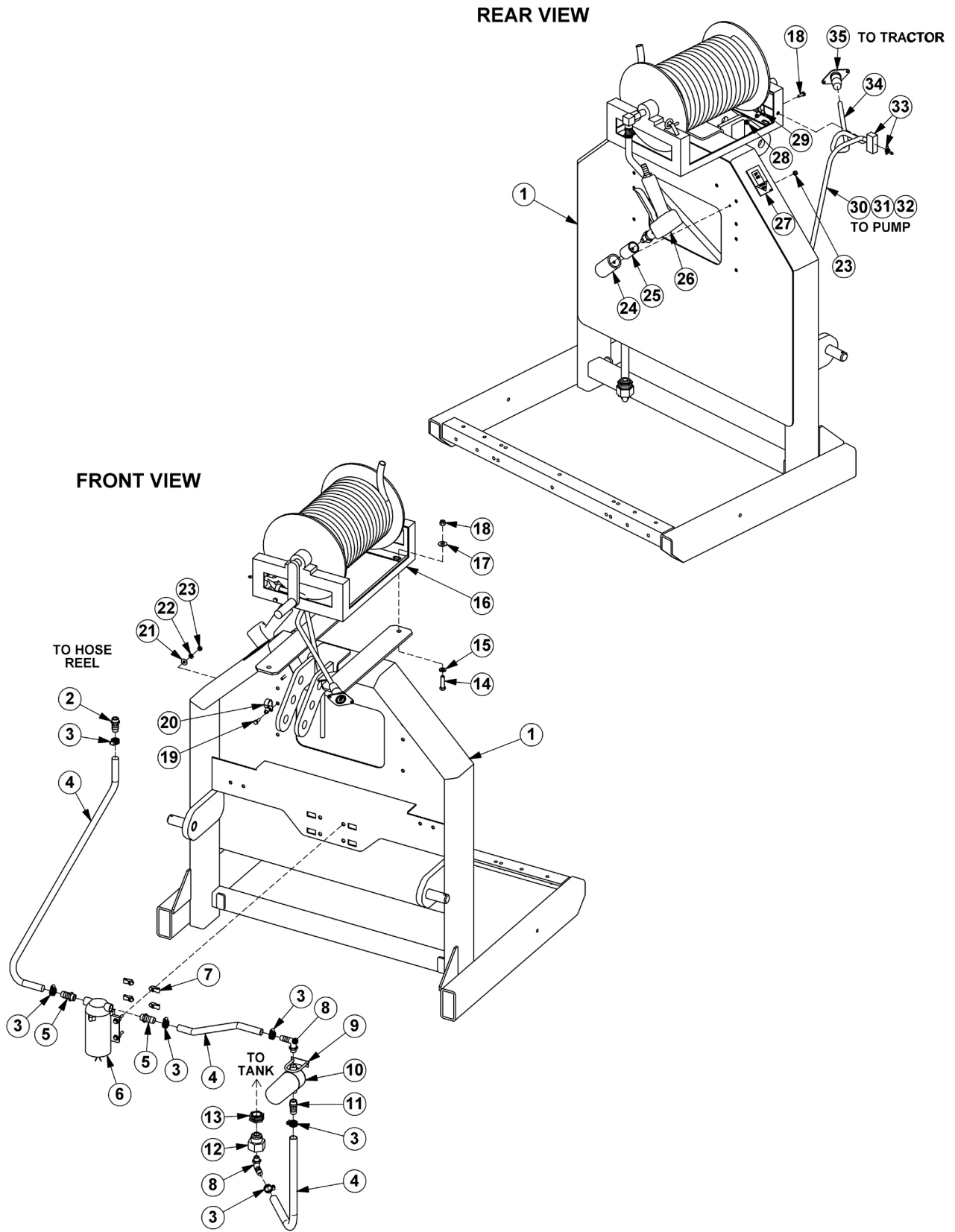


SEE DRAWING # 06515000 FOR A FULL DESCRIPTION OF ALL CONNECTORS

NOTES

FIRE SUPPRESSION SYSTEM SECTION

FIRE SUPPRESSION 3-POINT MOUNT



COMMON SIDE ROTARY

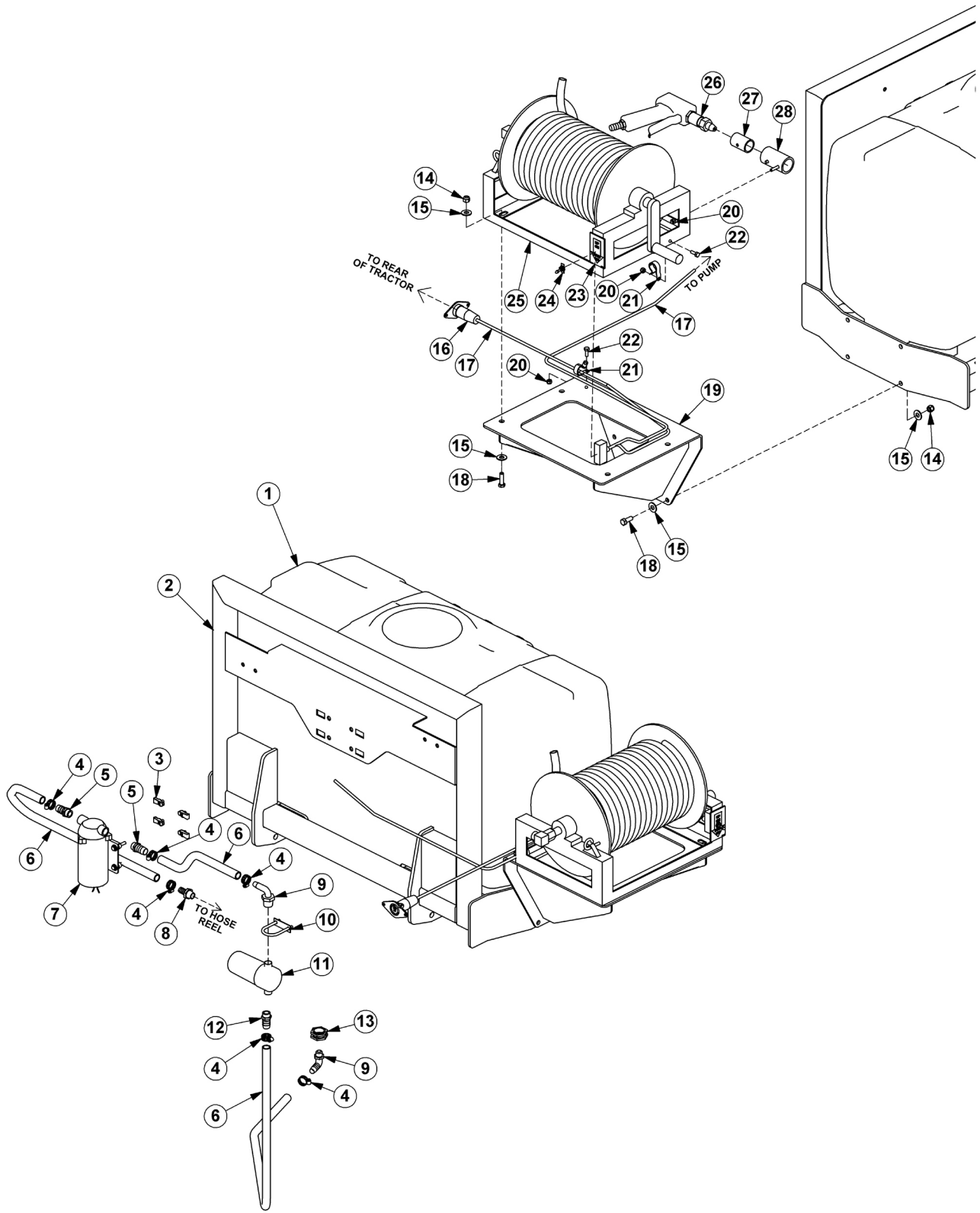
FIRE SUPPRESSION 3-POINT MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370137 | 1 | MOUNT,3PNT,FIRE SYS |
| 2 | 06503108 | 1 | FITTING,1/2"BARB X 1/2"MP |
| 3 | 35091 | 6 | CLAMP,HOSE,#6 |
| 4 | 06520469 | 5 | HOSE,1/2",BULK (FEET) |
| 5 | 06503168 | 2 | SWIVEL,1/2"STR,POLY |
| 6 | 06520359 | 1 | PUMP,LARGE |
| 7 | 35176 | 4 | U-NUT,1/4" |
| 8 | 06520367 | 2 | ELBOW,1/2"BARB X 1/2"MP,POLY |
| 9 | 27329 | 1 | U-BOLT,1/4" |
| 10 | 06520361 | 1 | FILTER |
| --- | 06520351 | 1 | ELEMENT,FILTER |
| 11 | 06520349 | 1 | FITTING,BARB,HOSE |
| 12 | 06503169 | 1 | REDUCER,BUSHING (100 & 150 GALLON TANKS ONLY) |
| 13 | 06520346 | 1 | FITTING,BULKHEAD (50 GALLON TANKS ONLY) |
| 14 | 21632 | 4 | CAPSCREW,3/8" X 1-1/2",NC |
| 15 | 21988 | 4 | LOCKWASHER,3/8" |
| 16 | 06520360 | 1 | HOSE REEL |
| 17 | 22016 | 4 | FLATWASHER,3/8" |
| 18 | 21627 | 4 | NYLOCK NUT,3/8",NC |
| 19 | 21529 | 2 | CAPSCREW,1/4" X 3/4",NC |
| 20 | 06510258 | 1 | CLAMP,3/4" |
| 21 | 22014 | 1 | FLATWASHER,1/4" |
| 22 | 21986 | 1 | LOCKWASHER,1/4" |
| 23 | 21525 | 2 | HEX NUT,1/4",NC |
| 24 | 06370121 | 1 | HOLSTER |
| 25 | 06430090 | 1 | SLEEVE |
| 26 | 06520366 | 1 | GUN,FIRE SYS |
| 27 | 6T3222 | 1 | DECAL |
| 28 | 21527 | 1 | NYLOCK NUT,1/4",NC |
| 29 | 06510257 | 1 | CLAMP,3/8" |
| 30 | 28055 | 5 | WIRE,BLACK,14GA (FEET) |
| 31 | 24200 | 5 | WIRE,RED,14GA (FEET) |
| 32 | 22802 | 5 | WIRE WRAP (FEET) |
| 33 | PT3905A | 1 | SWITCH |
| 34 | 06510256 | 4 | CABLE,14GA,4WIRE (FEET) |
| 35 | 06510255 | 1 | PLUG,7PIN,TRCTR |

COMMON SIDE ROTARY

FIRE SUPPRESSION FRONT MOUNT



COMMON SIDE ROTARY

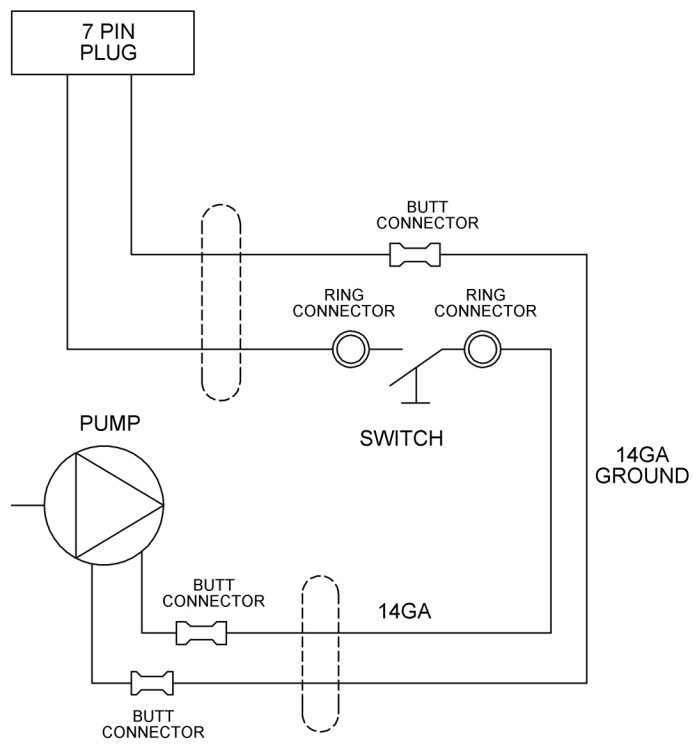
FIRE SUPPRESSION FRONT MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 06520342 | 1 | TANK,50 GALLON |
| 2 | 06370204 | 1 | MNT,TANK,FRNT,50 GALLON |
| 3 | 35176 | 4 | U-NUT,1/4,3/4 TO CENTER |
| 4 | 35091 | 6 | CLAMP,HOSE,#6 |
| 5 | 06503168 | 2 | SWIVEL,1/2 STR,POLY |
| 6 | 06520469 | 8 | HOSE,1/2,SPRAYER |
| 7 | 06520359 | 1 | PUMP,FIRE KIT |
| 8 | 06503108 | 1 | FITTING,1/2" BARB X 1/2"MP |
| 9 | 06520367 | 2 | ELBOW,1/2MPX1/2BARB,POLY |
| 10 | 27329 | 1 | U-BOLT,1/4X2X1 |
| 11 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40 MESH |
| 12 | 06520349 | 1 | FITTING,BARB,HOSE,WETCUT |
| 13 | 06520346 | 1 | FITTING,BULKHEAD |
| 14 | 21627 | 8 | NYLOCK NUT,3/8 NC |
| 15 | 22016 | 16 | FLATWASHER,3/8,GR8 |
| 16 | 06510255 | 1 | PLUG,7PIN,TRCTR |
| 17 | 06510256 | 22 | WIRE,14GA,4WIRE (FEET) |
| 18 | 21631 | 8 | CAPSCREW,3/8X1 1/4, NC,GR8 |
| 19 | 06370207 | 1 | MNT,FIRE SUPPRESSION |
| 20 | 21527 | 3 | NYLOCK NUT,1/4 NC |
| 21 | 06510257 | 2 | CLAMP,3/8X1/4,INS |
| 22 | 21529 | 2 | CAPSCREW,1/4 X 3/4 NC |
| 23 | 6T3222 | 1 | DECAL,CONTROL,ON-OFF SWITCH |
| 24 | PT3905A | 1 | SWITCH,MOWER |
| 25 | 06520360 | 1 | HOSE REEL,FIRE KIT,RAILKUT |
| 26 | 06520366 | 1 | GUN,FIRE KIT,RAILKUT |
| 27 | 06430090 | 1 | SLEEVE,GUN,FIRE SYS |
| 28 | 06370121 | 1 | HOLSTER,FIRESYS,RAILKUT |

COMMON SIDE ROTARY

FIRE SUPPRESSION SYSTEM ELECTRICAL SCHEMATIC

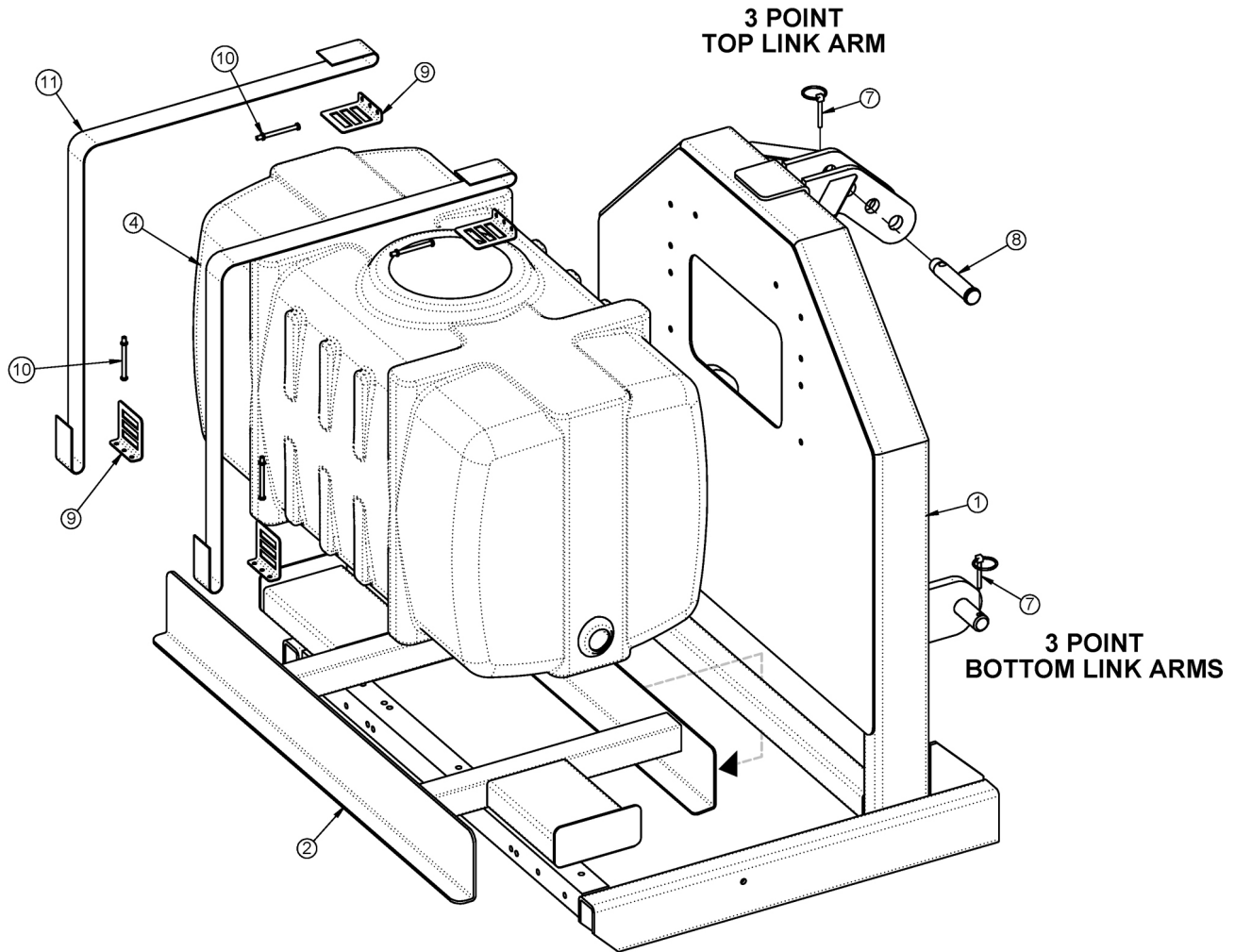


WETCUT

**WETCUT
SECTION**

WETCUT 50 GALLON TANK - 3PNT MOUNT

INSTALL ITEM 2 INTO ITEM 1 FIRST

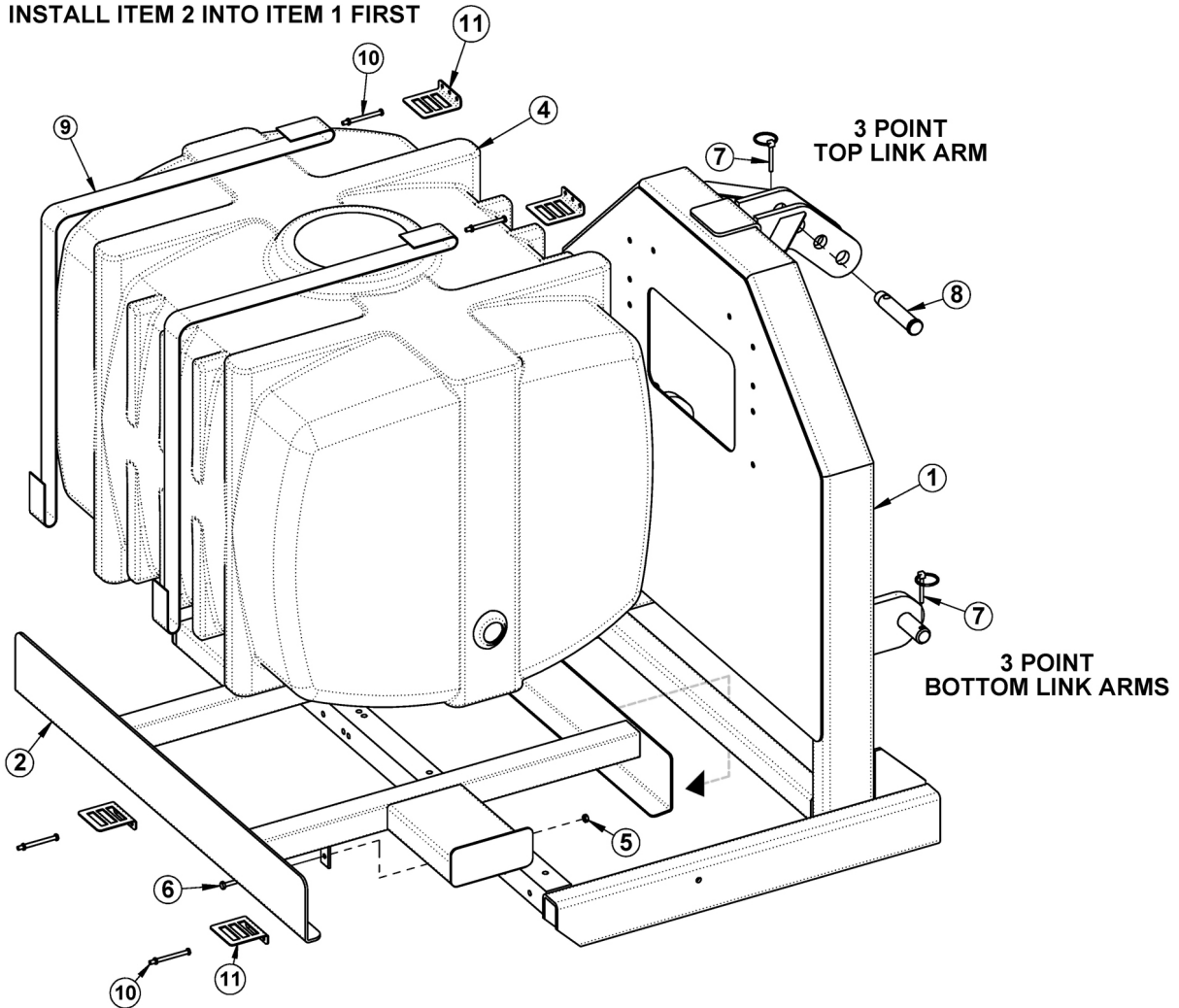


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 06370136 | 1 | MNT,TANK,50GAL,WETCUT |
| 4 | 06520342 | 1 | TANK,50GA.,WETCUT |
| 7 | RD1032 | 3 | PIN,LYNCH 1/4" X 2" |
| 8 | TB1036 | 1 | PIN,SEC BOOM SWIV 1X4-11/16" |
| 9 | 06520343 | 4 | ANCHOR,STRAP,WETCUT |
| 10 | 06520344 | 4 | BOLT,STRAP,TANK,WETCUT |
| 11 | 06520345 | 2 | STRAP,TANK,WETCUT |

COMMON SIDE ROTARY

WETCUT 100 OR 150 GALLON TANK - 3PNT MOUNT

INSTALL ITEM 2 INTO ITEM 1 FIRST

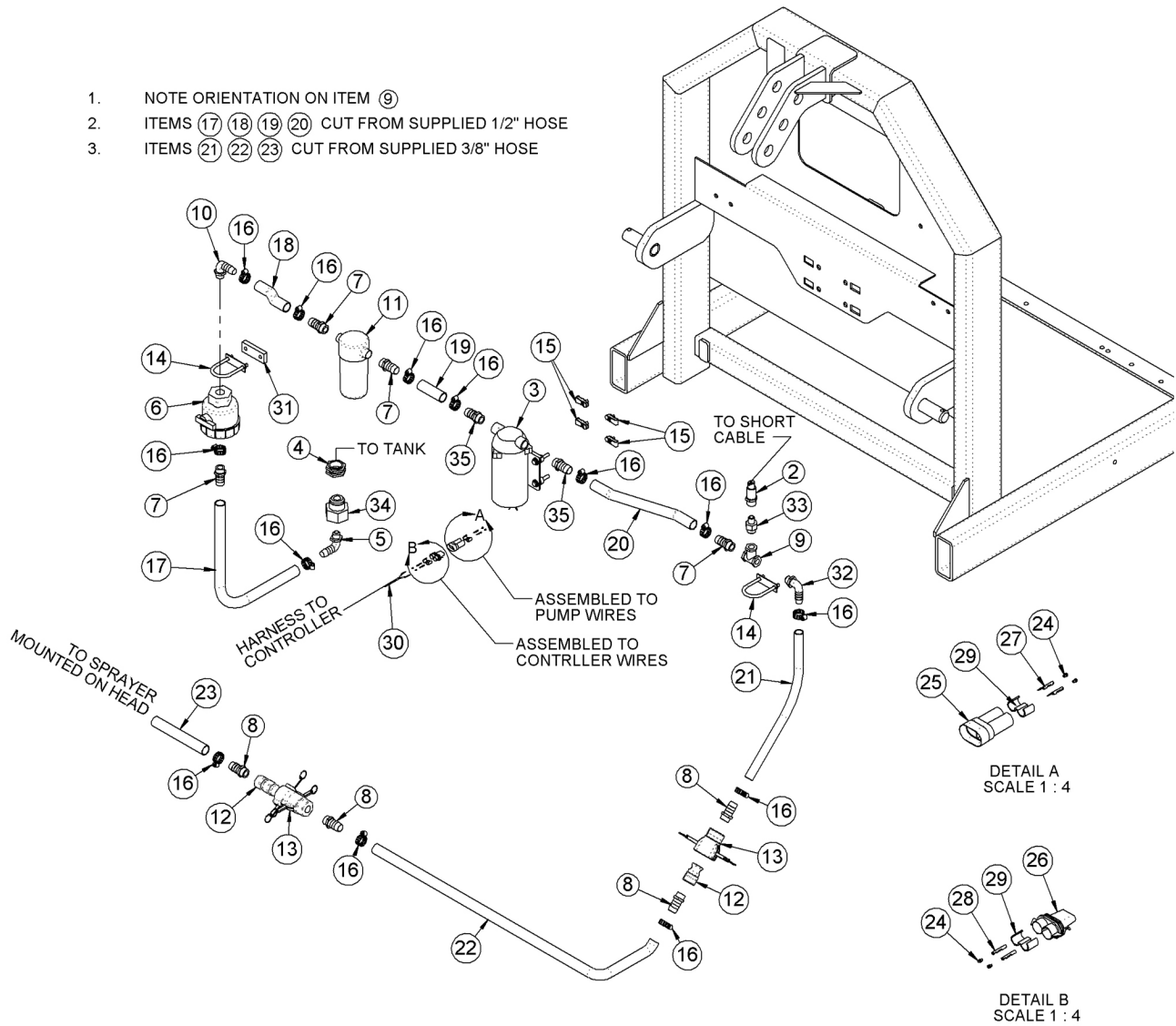


| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|------------------------------|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 06370138 | 1 | MNT,TANK,100GAL,WETCUT |
| ----- | 06370139 | - | MNT,TANK,150GAL,WETCUT |
| 4 | 06520372 | 1 | TANK,100GA.,WETCUT |
| ----- | 06520373 | - | TANK,150GA.,WETCUT |
| 5 | 21527 | 2 | HEX NUT,NYLOCK,1/4" NC |
| 6 | 21530 | 2 | CAPSCREW,1/4" X 1" NC |
| 7 | RD1032 | 3 | PIN,LYNCH 1/4" X 2" |
| 8 | TB1036 | 1 | PIN,SEC BOOM SWIV 1X4-11/16" |
| 9 | 06520345 | 2 | STRAP,TANK,WETCUT |
| 10 | 06520344 | 4 | BOLT,STRAP,TANK,WETCUT |
| 11 | 06520343 | 4 | ANCHOR,STRAP,WETCUT |

COMMON SIDE ROTARY

WETCUT 3PNT PLUMBING - 50IN MOWERS

1. NOTE ORIENTATION ON ITEM ⑨
2. ITEMS ⑰ ⑱ ⑲ ⑳ CUT FROM SUPPLIED 1/2" HOSE
3. ITEMS ㉑ ㉒ ㉓ CUT FROM SUPPLIED 3/8" HOSE



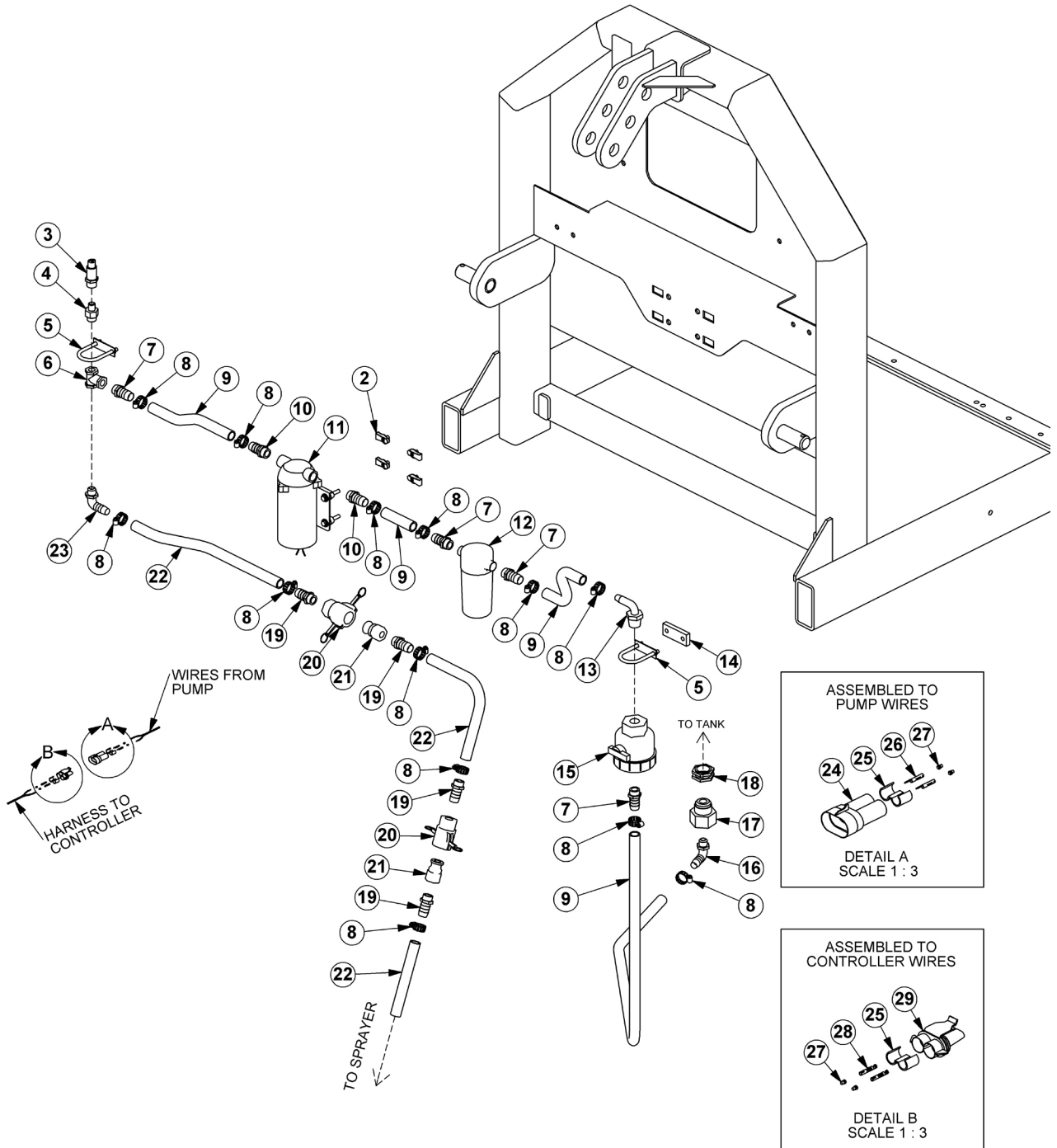
WETCUT 3PNT PLUMBING - 50IN MOWERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---------|----------|------|---|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 3 | 06520341 | 1 | PUMP,WETCUT |
| 4 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY) |
| 5 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 6 | 06520348 | 1 | VLV,BALL,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 06503173 | 4 | FITTING,1/2MP X 3/8" BARB |
| 9 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 10 | 06520367 | 1 | ELBOW,1/2" X 1/2" BARB,POLY |
| 11 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| 12 | 06520400 | 2 | QUIK CPLR,MALE,1/2",WETCUT |
| 13 | 06520401 | 2 | QUIK CPLR,FEM,1/2",WETCUT |
| 14 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 15 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 16 | 35091 | 13 | CLAMP, HOSE #6 |
| 17 - 20 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 21 - 23 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 24 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 25 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 26 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |
| 27 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 28 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 29 | 06510056 | 2 | TPA |
| 30 | 06520337 | 1 | INCLUDED WITH CONTROLLER |
| 31 | 06401133 | 1 | SPACER,Ø.31" X 1.75" X .38" |
| 32 | 06503165 | 1 | ELBOW,1/2"MP X 3/8" BARB |
| 33 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 34 | 06503169 | 1 | BUSHING,1"MP X 1/2"FP (100 & 150 GALLON TANKS ONLY) |
| 35 | 06503176 | 2 | FITTING,BARB,3/8"MP X 1/2" BARB |

COMMON SIDE ROTARY

WETCUT 3PNT PLUMBING - LARGE MOWERS



COMMON SIDE ROTARY

WETCUT 3PNT PLUMBING - LARGE MOWERS

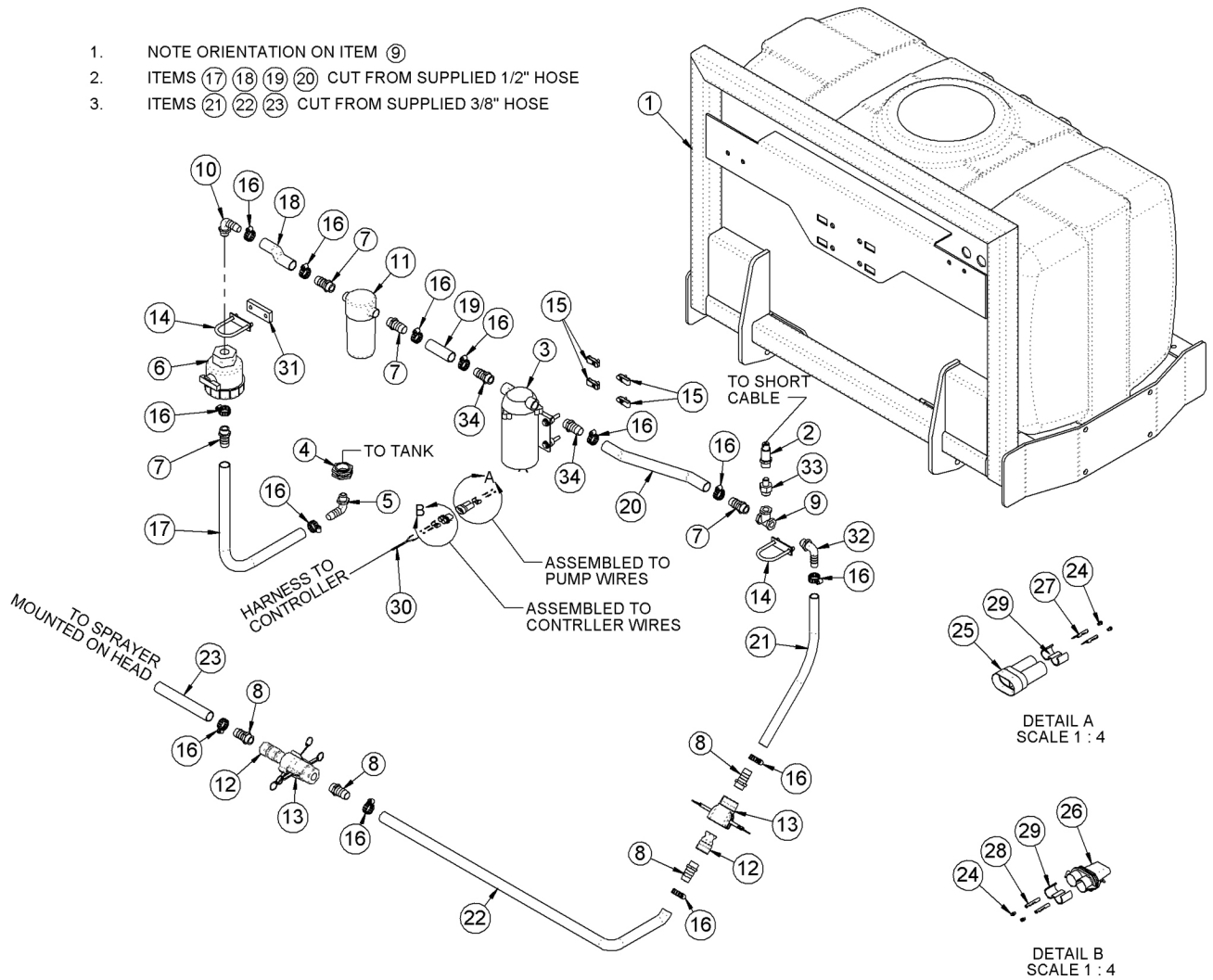
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 35176 | 4 | U-NUT,1/4,3/4 TO CENTER |
| 3 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 4 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 5 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 6 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 35091 | 13 | CLAMP, HOSE #6 |
| 9 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 10 | 06503168 | 2 | SWIVEL,1/2" STR |
| 11 | 06520359 | 1 | PUMP,LARGE |
| 12 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40MESH |
| 13 | 06520367 | 1 | ELBOW,1/2X1/2BARB,POLY |
| 14 | 06401133 | 1 | SPACER,Ø.31X1.75X.38 |
| 15 | 06520348 | 1 | VLV,BALL,WETCUT |
| 16 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 17 | 06503169 | 1 | BUSHING,1MPX1/2FP (100 & 150 GALLON TANKS ONLY) |
| 18 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY) |
| 19 | 06503173 | 4 | FITTING,BARB,1/2X3/8,WETCUT |
| 20 | 06520401 | 2 | QUIK CPLR,FEM,1/2,WETCUT |
| 21 | 06520400 | 2 | QUIK CPLR,MALE,1/2,WETCUT |
| 22 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 23 | 06503165 | 1 | ELBOW,1/2X3/8BARB,POLY |
| 24 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 25 | 06510056 | 2 | TPA |
| 26 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 27 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 28 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 29 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |

COMMON SIDE ROTARY

WETCUT FRONT PLUMBING - 50IN MOWERS

1. NOTE ORIENTATION ON ITEM ⑨
2. ITEMS ⑰ ⑱ ⑲ ⑳ CUT FROM SUPPLIED 1/2" HOSE
3. ITEMS ㉑ ㉒ ㉓ CUT FROM SUPPLIED 3/8" HOSE



COMMON SIDE ROTARY

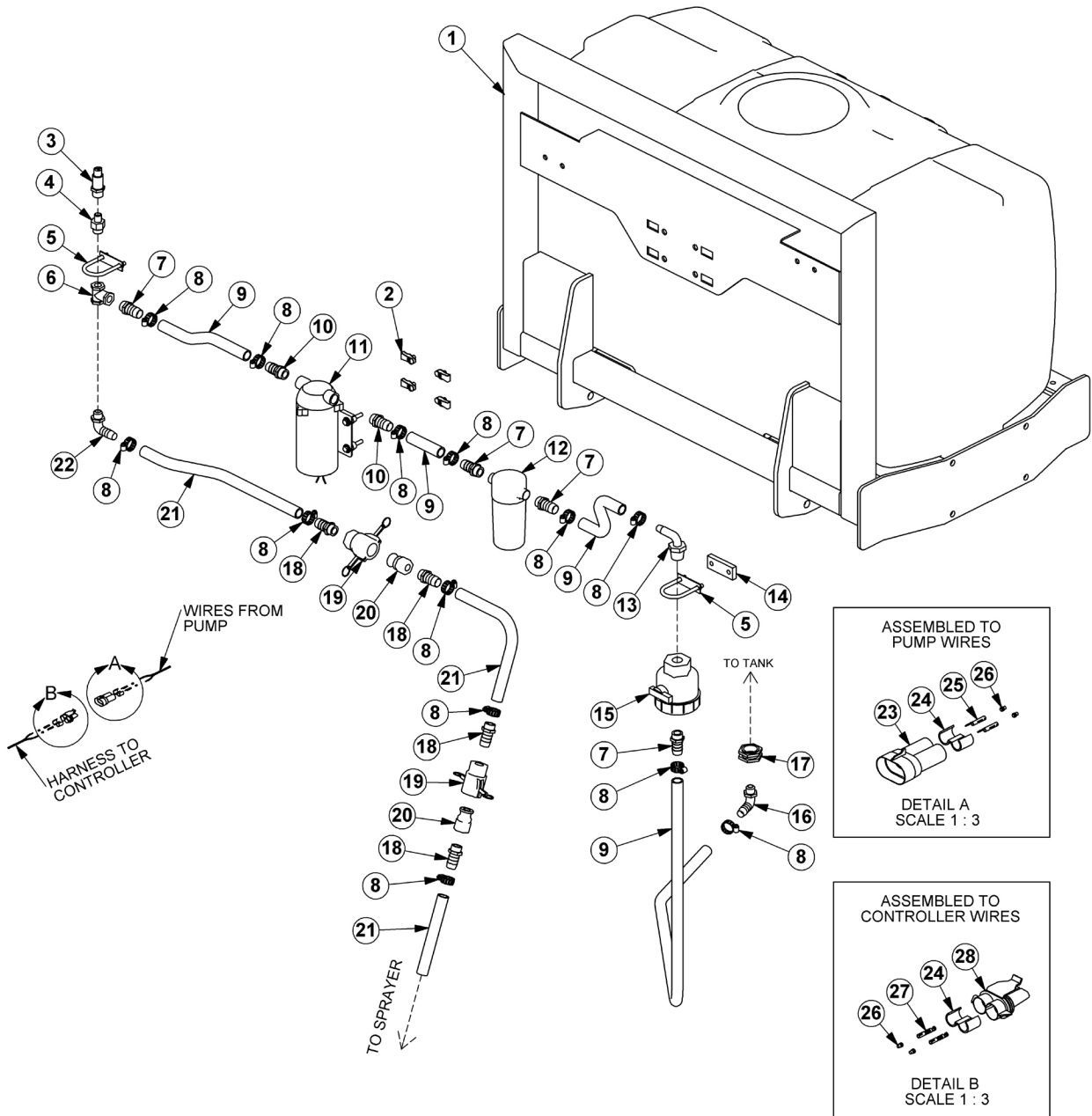
WETCUT FRONT PLUMBING - 50IN MOWERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---------|----------|------|-----------------------------------|
| 1 | 06370204 | 1 | MNT,FRONT,UNI |
| 2 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 3 | 06520341 | 1 | PUMP,WETCUT |
| 4 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT |
| 5 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 6 | 06520348 | 1 | VLV,BALL,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 06503173 | 4 | FITTING,1/2"MP X 3/8"BARB |
| 9 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 10 | 06520367 | 1 | ELBOW,1/2"MP X 1/2"BARB,POLY |
| 11 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40MESH |
| 12 | 06520400 | 2 | QUIK CPLR,MALE,1/2",WETCUT |
| 13 | 06520401 | 2 | QUIK CPLR,FEM,1/2",WETCUT |
| 14 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 15 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 16 | 35091 | 13 | CLAMP,HOSE #6 |
| 17 - 20 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 21 - 23 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 24 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 25 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 26 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |
| 27 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 28 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 29 | 06510056 | 2 | TPA |
| 30 | 06520337 | 1 | INCLUDED WITH CONTROLLER |
| 31 | 06401133 | 1 | SPACER,Ø.31" X 1.75" X .38" |
| 32 | 06503165 | 1 | ELBOW,1/2"MP X 3/8"BARB,POLY |
| 33 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 34 | 06503176 | 2 | FITTING,3/8"MP X 1/2"BARB |

COMMON SIDE ROTARY

WETCUT FRONT PLUMBING - LARGE MOWERS



COMMON SIDE ROTARY

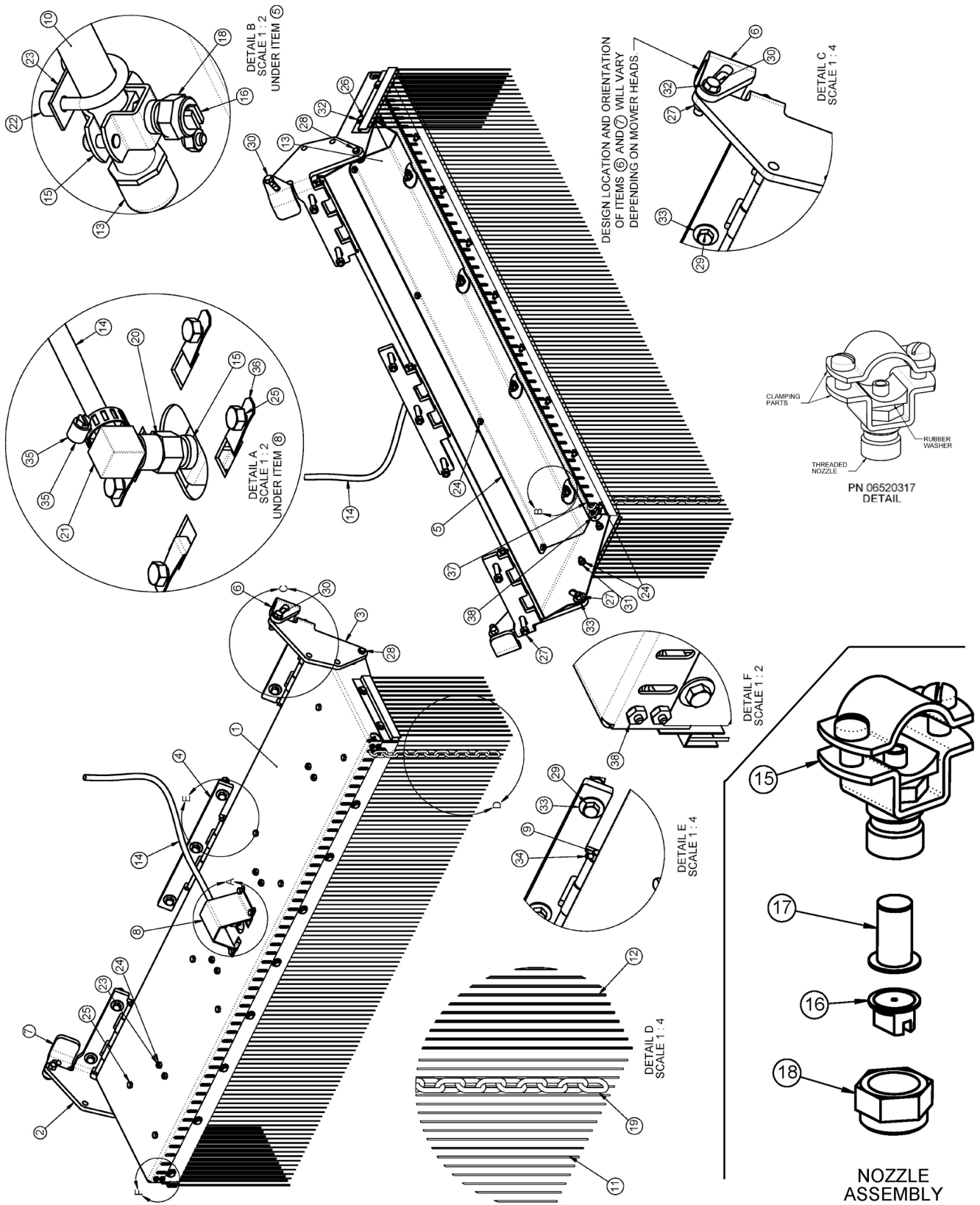
WETCUT FRONT PLUMBING - LARGE MOWERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 1 | 06370204 | 1 | MNT,FRONT,UNIV |
| 2 | 35176 | 4 | U-NUT,1/4,3/4 TO CENTER |
| 3 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 4 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 5 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 6 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 35091 | 13 | CLAMP, HOSE #6 |
| 9 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 10 | 06503168 | 2 | SWIVEL,1/2" STR |
| 11 | 06520359 | 1 | PUMP,LARGE |
| 12 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40MESH |
| 13 | 06520367 | 1 | ELBOW,1/2X1/2BARB,POLY |
| 14 | 06401133 | 1 | SPACER,Ø.31X1.75X.38 |
| 15 | 06520348 | 1 | VLV,BALL,WETCUT |
| 16 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 17 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT |
| 18 | 06503173 | 4 | FITTING,BARB,1/2X3/8,WETCUT |
| 19 | 06520401 | 2 | QUIK CPLR,FEM,1/2,WETCUT |
| 20 | 06520400 | 2 | QUIK CPLR,MALE,1/2,WETCUT |
| 21 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 22 | 06503165 | 1 | ELBOW,1/2X3/8BARB,POLY |
| 23 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 24 | 06510056 | 2 | TPA |
| 25 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 26 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 27 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 28 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |

COMMON SIDE ROTARY

WETCUT 50IN SPRAYER HEAD ASSEMBLY



COMMON SIDE ROTARY

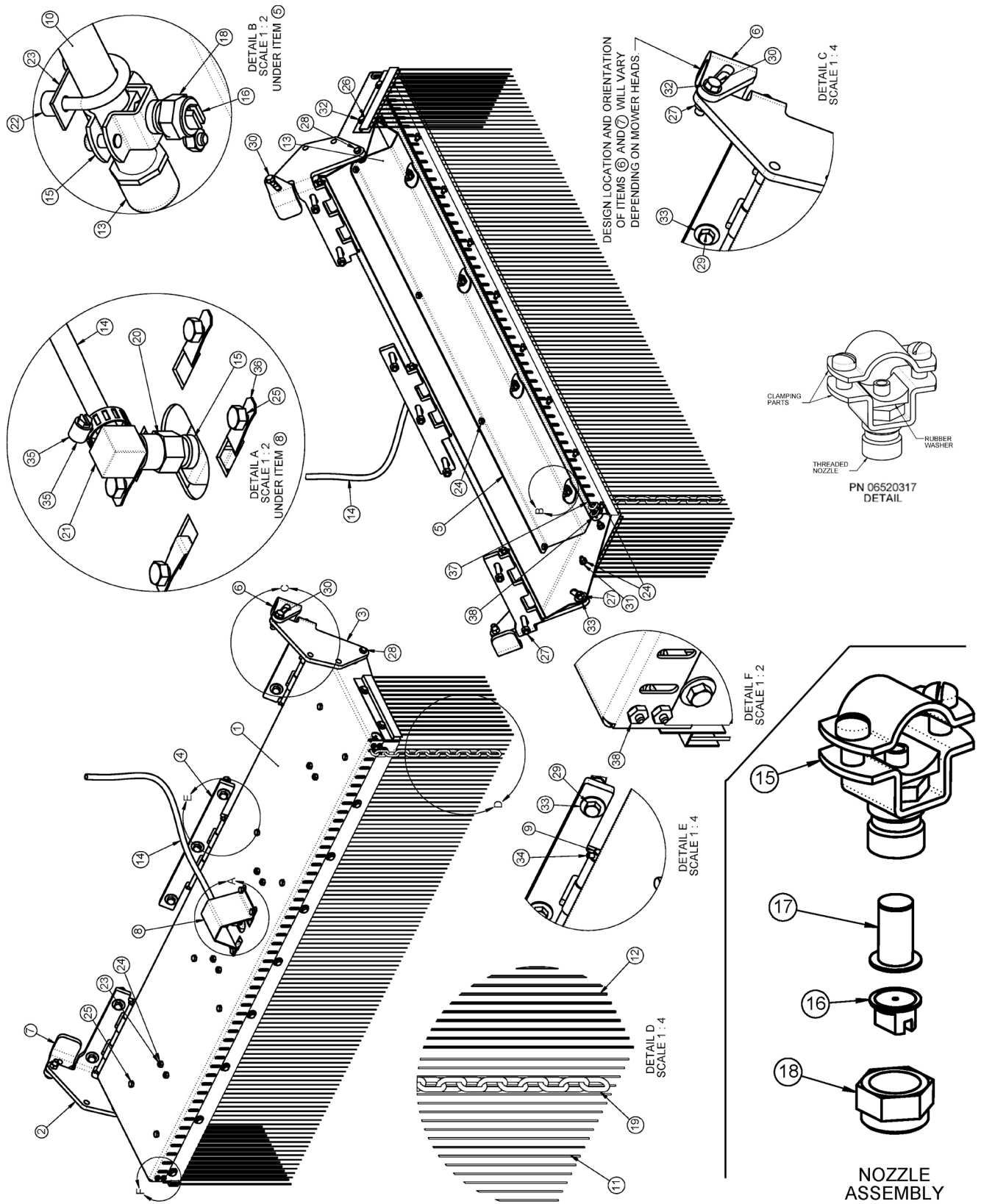
WETCUT 50IN SPRAYER HEAD ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370105 | 1 | HOOD,SPRAYER |
| 2 | 06370106 | 1 | HINGE,LH,SPRAYER |
| 3 | 06370107 | 1 | HINGE,RH,SPRAYER |
| 4 | 06370108 | 1 | HINGE,CNTR,SPRAYER |
| 5 | 06410668 | 1 | GUARD,SPRAYER,WETCUT |
| 6 | 06410753 | 1 | MNT,RH,WET CUT (FLAIL) |
| --- | 06410942 | 1 | MNT,RH,WET CUT (ROTARY) |
| 7 | 06410754 | 1 | MNT,LH,WET CUT (FLAIL) |
| --- | 06410943 | 1 | MNT,LH,WET CUT (ROTARY) |
| 8 | 06410796 | 1 | GUARD,HOSE,WETCUT |
| 9 | 06420069 | 3 | PIN,HINGE,WET CUT |
| 10 | 06497003 | 1 | TUBE,LG,SPRAYER |
| 11 | 06499012 | 1 | SKIRT,ANTI SPRAY,50 |
| 12 | 06499013 | 2 | SKIRT,ANTI SPRAY,7 |
| 13 | 06520314 | 2 | TUBE,CAP,SPRAYER |
| 14 | 06520316 | 15 | HOSE,SPRAYER (FEET) |
| 15 | 06520317 | 5 | NOZZLE,SPRAYER |
| 16 | 06520319 | 4 | TIP,NOZZLE,SPRAYER |
| 17 | 06520320 | 4 | FILTER,NOZZLE,SPRAYER |
| 18 | 06520321 | 4 | NUT,NOZZLE,SPRAYER |
| 19 | 06520322 | 49 | CHAIN,.18" X 1.31" X 13LINKS |
| 20 | 06520381 | 1 | ADAPTER,1/4"NPT,WETCUT |
| 21 | 06520382 | 1 | ELBOW,BARB,3/8" X 1/4"NPT |
| 22 | 06520383 | 8 | SPACER,.50"O.D. X .252" I.D. X .38",NYLON |
| 23 | 32550 | 4 | U-BOLT,1/4" X 1" X 1" X 1-3/4" |
| 24 | 21527 | 29 | HEX NUT,NYLOCK,1/4",NC |
| 25 | 21528 | 12 | CAPSCREW,1/4" X 1/2",NC |
| 26 | 21529 | 13 | CAPSCREW,1/4" X 3/4",NC |
| 27 | 21625 | 11 | HEX NUT,3/8",NC |
| 28 | 21630 | 2 | CAPSCREW,3/8" X 1",NC |
| 29 | 21634 | 7 | CAPSCREW,3/8" X 2",NC |
| 30 | 21632 | 2 | CAPSCREW,3/8" X 1-1/2",NC |
| 31 | 21986 | 4 | LOCKWASHER,1/4" |
| 32 | 22014 | 15 | FLATWASHER,1/4" |
| 33 | 22016 | 9 | FLATWASHER,3/8",GR8 |
| 34 | 34698 | 6 | ROLL PIN, PLAIN, 3/16" X 7/8" |
| 35 | 35091 | 1 | CLAMP,HOSE #6 |
| 36 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 37 | 06520376 | 5 | CABLE,3/16" |
| 38 | 06537022 | 2 | U-BOLT,CABLE,3/16" |

COMMON SIDE ROTARY

WETCUT 60IN SPRAYER HEAD ASSEMBLY



COMMON SIDE ROTARY

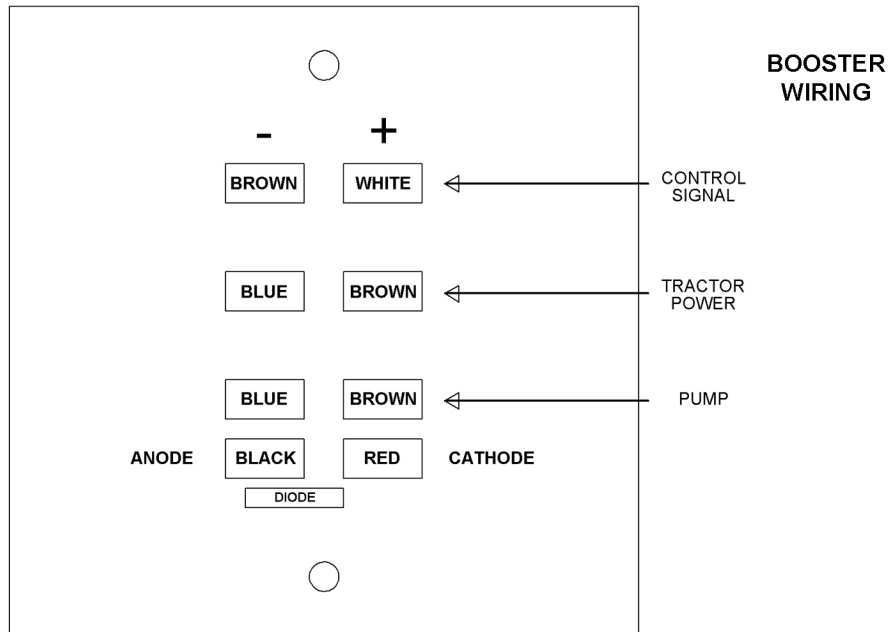
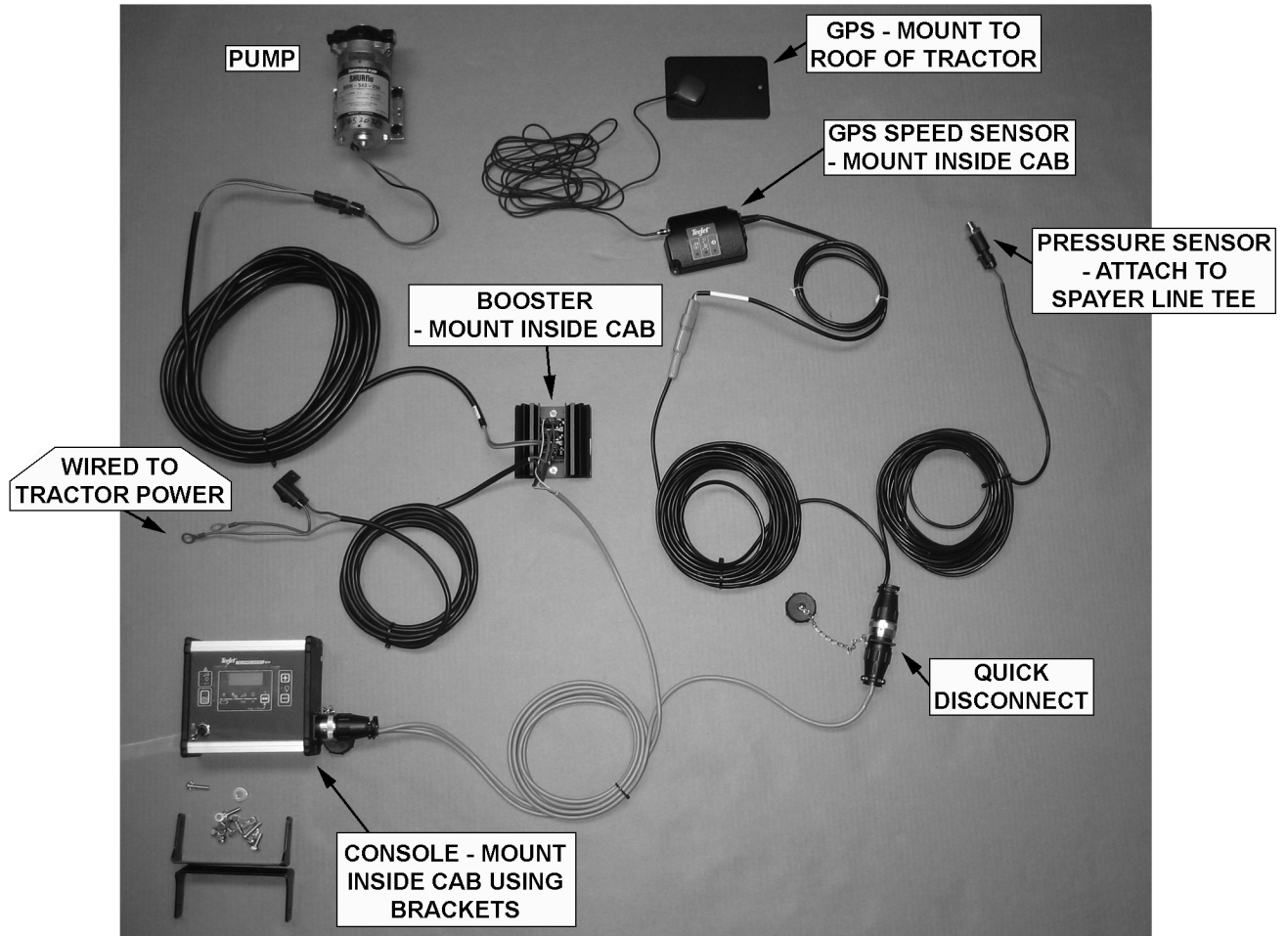
WETCUT 60IN SPRAYER HEAD ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370210 | 1 | HOOD,SPRAYER |
| 2 | 06370106 | 1 | HINGE,LH,SPRAYER |
| 3 | 06370107 | 1 | HINGE,RH,SPRAYER |
| 4 | 06370108 | 1 | HINGE,CNTR,SPRAYER |
| 5 | 06411234 | 1 | GUARD,SPRAYER,WETCUT |
| 6 | 06410753 | 1 | MNT,RH,WET CUT (FLAIL) |
| --- | 06410942 | 1 | MNT,RH,WET CUT (ROTARY) |
| 7 | 06410754 | 1 | MNT,LH,WET CUT (FLAIL) |
| --- | 06410943 | 1 | MNT,LH,WET CUT (ROTARY) |
| 8 | 06410796 | 1 | GUARD,HOSE,WETCUT |
| 9 | 06420069 | 3 | PIN,HINGE,WET CUT |
| 10 | 06497009 | 1 | TUBE,LG,SPRAYER |
| 11 | 06499018 | 1 | SKIRT,ANTI SPRAY,60 |
| 12 | 06499013 | 2 | SKIRT,ANTI SPRAY,7 |
| 13 | 06520314 | 2 | TUBE,CAP,SPRAYER |
| 14 | 06520316 | 15 | HOSE,SPRAYER (FEET) |
| 15 | 06520317 | 6 | NOZZLE,SPRAYER |
| 16 | 06520319 | 5 | TIP,NOZZLE,SPRAYER |
| 17 | 06520320 | 5 | FILTER,NOZZLE,SPRAYER |
| 18 | 06520321 | 5 | NUT,NOZZLE,SPRAYER |
| 19 | 06520322 | 61 | CHAIN,.18" X 1.31" X 13LINKS |
| 20 | 06520381 | 1 | ADAPTER,1/4"NPT,WETCUT |
| 21 | 06520382 | 1 | ELBOW,BARB,3/8" X 1/4"NPT |
| 22 | 06520383 | 10 | SPACER,.50"O.D. X .252" I.D. X .38",NYLON |
| 23 | 32550 | 5 | U-BOLT,1/4" X 1" X 1" X 1-3/4" |
| 24 | 21527 | 33 | HEX NUT,NYLOCK,1/4",NC |
| 25 | 21528 | 15 | CAPSCREW,1/4" X 1/2",NC |
| 26 | 21529 | 13 | CAPSCREW,1/4" X 3/4",NC |
| 27 | 21625 | 13 | HEX NUT,3/8",NC |
| 28 | 21630 | 2 | CAPSCREW,3/8" X 1",NC |
| 29 | 21634 | 7 | CAPSCREW,3/8" X 2",NC |
| 30 | 21632 | 4 | CAPSCREW,3/8" X 1-1/2",NC |
| 31 | 21986 | 4 | LOCKWASHER,1/4" |
| 32 | 22014 | 33 | FLATWASHER,1/4" |
| 33 | 22016 | 11 | FLATWASHER,3/8",GR8 |
| 34 | 34698 | 6 | ROLL PIN, PLAIN, 3/16" X 7/8" |
| 35 | 35091 | 1 | CLAMP,HOSE #6 |
| 36 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 37 | 06520376 | 6 | CABLE,3/16" (FEET) |
| 38 | 06537022 | 2 | U-BOLT,CABLE,3/16" |

COMMON SIDE ROTARY

WETCUT CABLES



WARRANTY SECTION

WARRANTY INFORMATION

Tiger Corporation, 3301 N. Louise, Sioux Falls, South Dakota, warrants to the original Retail Customer, the new Tiger equipment is free of defects in material and workmanship. Any part of equipment that in Tiger's judgement, show evidence of such defects will be repaired or replaced without charge, provided that the failure of part(s) shall have occurred within twelve (12) months from the date of delivery of said equipment to the Retail Customer. Expendable components such as knives, oil, chain sprockets, skid shoes, knife mounting disks and the like are excluded but not limited to this warranty.

The Retail Customer must pay the transportation cost to and from the Tiger Dealer's service shop for warranty service. Warranty service will be performed by the Tiger Dealer from whom the equipment was purchased, during service shop regularly scheduled days and hours of operation.

All Tiger obligation under this warranty shall be terminated if the equipment is modified or altered in ways not approved in writing by Tiger, if repair parts other than genuine Tiger repair parts have been used, or if the equipment has been subject to misuse, neglect, accident, improper maintenance or improper operation.

Tiger Corporation reserves the right to make improvements in design or changes in specification at any time without incurring any obligation to owners of equipment previously sold.

No agent or person has authority to alter, add to or waive the above warranties which are agreed to be in the only warranties, representations or promises, expressed or implied, as to the quality or performance of the products covered and which do not include any implied warranty of merchantability or fitness. In no event will Tiger be liable for incidental or consequential damages or injuries, including, but not limited to, loss of profits, rental or substitute equipment or other commercial loss.

**THERE ARE NO WARRANTIES WHICH EXTEND
BEYOND THOSE EXPRESSED HEREIN.**

It is the Purchasers obligation to sign the warranty registration form **AFTER** he / she has Read and Understands the Operation and Safety Instructions stated within this manual.

ONE LAST WORD

This manual cannot possibly cover all of the potentially hazardous situations you will encounter. By being familiar with the safety rules, operating and maintenance instructions in this manual you can help prevent accidents. The objective of this manual is to help make you a better operator. Remember, **SAFETY IS YOU!**



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Your safety and the safety of those around you depends on **YOU**. Common sense should play a large role in the operation of this machine.

Since we at Tiger Corporation are constantly striving to improve our products, we reserve the right to change specifications or design at any time.

TO THE OWNER / OPERATOR / DEALER



To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this manual and on the machine. The table of contents clearly identifies each section where you can easily find the information you need.

The Occupational Safety and Health Act (OSHA 1928.51 subpart C) makes the following minimum requirements for tractor operators.

OWNER REQUIREMENTS:

1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
2. Provide Seatbelts that meet the requirements of this Standard and SAE J3C; and
3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

OPERATOR REQUIREMENTS:

1. Securely fasten seatbelt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near steep ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going – especially at row ends, on roads, and around trees.
6. Do Not permit others to ride.
7. Operate the tractor smoothly – no jerky turns, starts, or stops.
8. Hitch only to the draw-bar and hitch points recommended by the tractor manufacturer.
9. When the tractor is stopped, set brakes securely and use park lock, if available



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